



Dataloggers



Product Finder

Testo Dataloggers

Internal temperature sensor	External temperature probes	Internal humidity sensor	External humidity probes	Other parameters	Display	Memory	Protection class	
Mini temperature dataloggers								
NTC	–	–	–	–	Integral	3900	IP65	testo 174
Compact dataloggers								
NTC	–	–	–	–	Integral	7800	IP68	testo 175-T1
NTC	1 x NTC	–	–	–	Integral	16000	IP68	testo 175-T2
–	2 x Type T/K	–	–	–	Integral	16000	IP54	testo 175-T3
NTC	–	X	–	–	–	3700		testo 175-H1
NTC	–	X	–	–	Integral	16000		testo 175-H2
–	–	–	–	V, mA	–	16000		testo 175-S1
–	–	–	–	V, mA	Integral	16000		testo 175-S2
Compact dataloggers for long-term measurements								
NTC	–	–	–	–	–	48000	IP68	testo 177-T1
NTC	–	–	–	–	Integral	48000	IP68	testo 177-T2
NTC	2 x NTC	–	–	–	Integral	48000	IP67	testo 177-T3
–	4 x Type K/J/T	–	–	–	Integral	48000	IP43	testo 177-T4
NTC	1 x NTC	X	–	–	Integral	48000	IP54	testo 177-H1
Pro datalogger in a robust metal housing								
NTC	–	–	–	–	Optional	55000	IP68	testostor 171-0
NTC	–	–	–	–	Optional	55000	IP68	Ex 171-0
NTC	1 x NTC	–	X	–	Optional	55000	IP65	testostor 171-1
–	4 x NTC	–	–	–	Optional	55000	IP65	testostor 171-4
–	4 x Type T/K	–	–	–	–	55000	IP42	testostor 171-8
NTC	–	X	–	–	–	20000	IP65	testostor 171-3
NTC	–	X	–	–	Optional	20000	IP65	Ex 171-3
NTC	–	X	–	Dewpoint	–	55000	IP65	testostor 171-2
NTC	–	X	–	Dewpoint	–	55000	IP65	testostor 1722
–	4 x NTC	–	X	Dewpoint	Optional	55000	IP65	testostor 171-6
Reference logger system								
–	Diverse	–	X	m/s, hPa, CO, CO ₂ , V, mA	Integral	250.000- 5.250.000		testo 454



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Pro datalogger in a robust metal housing

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testo 174

Internal temperature sensor

The testo 174 mini temperature datalogger is ideal for accompanying transports. The logger is simply placed beside the product e.g. in aeroplanes, containers, refrigerated rooms etc. and constantly monitors the fluctuations in temperature unobtrusively.

testo 174, Mini temperature data logger, 1 channel, incl. wall holder, lock and battery

Part no.

0563 1741

Secure Data - even if battery is spent

- Current reading is shown on large display
- Data upload to PC or notebook via interface (optional)
- Fast data transfer - Data is read out from memory in 10 s.



Technical data			
Probe type	NTC	Memory	3900 readings
Meas. range	-30 to +70 °C	Display	LCD, 1 line
Accuracy	±0.5 °C (-20 to +39.9 °C)	Weight	24 g
±1 digit	±0.8 °C (remaining range)	Dimensions	55 x 35 x 14 mm
Resolution	0.1 °C	Battery life: 500 days (typical)	
Oper. temp.	-30... +70 °C	Meas. rate: 1 min to 4 h (selectable)	
Storage temp.	-40... +70 °C	Software: Microsoft Windows 95b / 98 / ME / NT2-Sp4 / 2000 / XP	
Battery type	3V button cell (CR 2032)		
Battery life	500 days (typical)		
Protection class	IP65		
Measuring rate	1 min to 4 h (selectable)		

Set	Part no.
testo 174 Mini temperature data logger, 1 channel, ComSoft 3 Basic, wall holder, lock, interface incl. PC connection cable, battery	0563 1742
Accessories	Part no.
Spare Li cell to save RAM data, When changing battery or rechargeable battery	0515 0028
Transport case for up to 10 testo 174 dataloggers and accessories	0516 1740
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
Interface, suitable for testo 174 datalogger, incl. PC connection cable	0554 1746
ISO calibration certificate/Temperature, Temperature datalogger, calibration points -18°C, +60°C	0520 0443

testo 175-T1

Internal temperature sensor

The testo 175-T1 temperature datalogger, ideal for accompanying goods, guarantees uninterrupted documentation of the complete refrigeration chain.

The testo 575 fast printer provides proof that the goods have adhered to the specified temperature. All of the data which have been collected by the testo 580 data collector can be sent to your PC for analysis, if required.

testo 175-T1, temperature datalogger, 1 channel with internal sensor, incl. wall holder and calibration protocol

Part no.

0563 1754

- Provides quick overview of current reading, last value saved, max/min value, number of times limits exceeded
- Non-volatile memory for secure data, even if battery is spent
- On-site: Fast documentation with infrared printer, 6 lines/s
- On site: Reset and boot up



Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 175 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1750
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769

Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561

Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1759
ComSoft 3 - Basic Set with USB interface for testo 175, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1766
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711

Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points -18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set	
testo 175-T1, Starter Set	
<ul style="list-style-type: none"> - testo 175-T1, temperature datalogger, 1 channel with internal sensor, incl. wall holder and calibration protocol (Part no. 0563 1754) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable (Part no. 0554 1759) 	

Technical data	
Probe type	NTC (internal)
Meas. range	-35 to +70 °C
Accuracy	±0.5 °C (-20 to +70 °C) ±1 °C (-35 to -20.1 °C)
Resolution	0.1 °C (-20 to +70 °C) 0.3 °C (-35 to -20.1 °C)
Oper. temp.	-35 to +70 °C
Storage temp.	-40 to +85 °C
Battery type	Lithium battery
Material/Housing	ABS
Protection class	IP68
Measuring rate	10 s ... 24 h
Memory	7800
Weight	90 g
Dimensions	82 x 52 x 30 mm
Warranty	2 years
Battery life: 2.5 years at a measuring cycle of 15 min (-10 to +50°C)	
Measuring cycle: 10 s to 24 h	
Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	

testo 175-T2

With an additional external probe connection, the testo 175-T2 temperature datalogger provides a further temperature measurement option.

The datalogger is attached to the wall to monitor air temperature, for example, and the separate probe is placed by the goods. testo 175-T2 provides information on the connection between ambient and product temperature.

testo 175-T2, Temperature datalogger, 2 channels, with internal sensor and external probe socket, wall holder and calibration protocol

Part no.
0563 1755

Internal temperature sensor, 1 external temperature probe socket

- Monitors 2 temperatures simultaneously
- Fast overview of the current reading, the value last saved, the max/min values, the number of limits exceeded
- User-friendly operation, convenient analysis
- Collect data on site, upload to PC and analyse
- Tamper-proof with wall holder and lock (optional)
- On site: Reset and reboot



Actual size


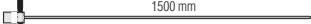
Probes (NTC)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
◆ Stub probe, IP 54	 35 mm Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
◆ Mounting probe with aluminium sleeve, IP 65	 40 mm Ø 6 mm Conn.: Fixed cable; Cable/Length: 2.4 m	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
◆ Refrigeration storeroom probe with aluminium sleeve, IP 54, with silicone insulated ribbon cable	 40 mm Ø 3 mm	-40 to +90 °C (Short-term to +105 °C)	±0.2 °C (0 to +70 °C) ±0.4 °C (-35 to 0 °C) ±0.5 °C (remaining range)	190 s	0628 0042*
◆ Accurate imm./pen. probe, 6m cable, IP 67	 40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 6 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725*
◆ Accurate immersion/penetration probe, cable: 1.5 m long, IP 67	 40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0628 0006*
◆ Screw-in probes for measurements at hard-to-access points, M6 thread, IP 54	 40 mm 8 x 8 mm Conn.: Fixed cable; Cable/Length: 2 m	-50 to +80 °C	±0.5% of mv	70 s	0628 7514*
Probe for surface measurement	 40 mm 8 x 8 mm Conn.: Fixed cable; Cable/Length: 2 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516*
Wall surface temperature probe, e.g. to prove damage in building material	 30 mm Conn.: Fixed cable; Cable/Length: 3 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
Pipe probe with Velcro, for pipe diameter of max. 80 mm	 300 mm 30 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611
◆ Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection	 125 mm Ø 4 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211*
◆ Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling	 115 mm Ø 5 mm Conn.: Fixed cable; Cable/Length: 1.4 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411*
◆ Frozen food probe, corkscrew design	 110 mm Ø 8 mm Conn.: Plug-in cable	-50 to +140 °C ²⁾	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211*

◆ The specified seal class of the dataloggers is achieved with these probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors
2) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

testo 175-T2

Accessories / Technical data

Probes (NTC)	Illustration	Meas. range	Accuracy	t _{gg}	Part no.
Robust, affordable air probe to check storage temperatures	 110 mm Ø 4 mm Conn.: Fixed cable; Cable/Length: 1.2 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0613 1711*
Robust industrial penetration probe for compost, hay, silage and earth measurements	 1500 mm Ø 12 mm	-35 to +120 °C	To UNI curve	16 s	Included in set, see above, Part no. 0628 0134

◆ The specified seal class of the dataloggers is achieved with these probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors
2) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 175 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1750
Lock for wall holder for testo 175/177 dataloggers	0554 1755

Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769

Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561

Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1759
ComSoft 3 - Basic Set with USB interface for testo 175, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1766
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711

Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Set	Part no.
testo 175-T2, Set for compost, hay, silage and ground measurements	
testostor 175-2, temperature data logger, 2 channels, with internal sensor, robust industrial penetration probe 1.5 m, handles, protection case PP, battery	0628 0134

Recommended set	
testo 175-T2, Starter Set	
- testo 175-T2, Temperature datalogger, 2 channels, with internal sensor and external probe socket, wall holder and calibration protocol (Part no. 0563 1755)	
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)	
- Mounting probe with aluminium sleeve, IP 65 (Part no. 0628 7503)	
- ComSoft 3 Set - Basic with RS 232 interface (Part no. 0554 1759)	

testo 175-T2, Monitoring Set with External Probe	
- testo 175-T2, Temperature datalogger, 2 channels, with internal sensor and external probe socket, wall holder and calibration protocol (Part no. 0563 1755)	
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)	
- Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection (Part no. 0613 2211)	
- ComSoft 3 Set - Basic with RS 232 interface (Part no. 0554 1759)	

testo 175-T2, Set for logging 2 temperatures	
- testo 175-T2, Temperature datalogger, 2 channels, with internal sensor and external probe socket, wall holder and calibration protocol (Part no. 0563 1755)	
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)	
- Accurate immersion/penetration probe, cable: 1.5 m long, IP 67 (Part no. 0628 0006)	
- ComSoft 3 Set - Basic with RS 232 interface (Part no. 0554 1759)	

Technical data		
	Chann. intern	Channel, external
Probe type	NTC	NTC
Meas. range	-35 to +70 °C	-40 to +120 °C
Accuracy	±0.5 °C (-20 to +70 °C) ±1 °C (remaining range)	±0.3 °C (-25 to +70 °C) ±0.5 °C (remaining range)
Resolution	0.1 °C (-20 to +70 °C) 0.3 °C (remaining range)	0.1 °C (-25 to +70 °C) 0.3 °C (remaining range)

Oper. temp.	-35 to +70 °C	Dimensions	82 x 52 x 30 mm
Storage temp.	-40 to +85 °C	Warranty	2 years
Battery type	Lithium battery	Battery life: 2.5 years at measuring cycle of 15 min (-10 to +50°C)	
Material/Housing	ABS	Measuring cycle: 10 s to 24 h	
Protection class	IP68	Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	
Memory	16000		
Weight	84 g		

testo 175-T3

The 175-T3 temperature datalogger logs temperature at 2 different points simultaneously over a period of several days, weeks or even months.

The logger provides fast documentation of e.g. temperature fluctuations in industrial processes. Surface, immersion and air probes are available for a wide range of applications.

testo 175-T3, temperature datalogger, 2 channels, with 2 probe sockets, wall holder and calibration protocol

Part no.
0563 1756

2 external temperature probe sockets

- Specially suited to measuring low and high temperatures
- Read out a complete logger at the touch of a button
- Data analysis in table or graphics form, with email function
- Alarm message, reliable transmission of alarm value limits
- Data transfer to PC or notebook by attachable interface (optional)



Actual size

Probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
◆ Industrial probe with stainless steel sleeve		-50 to +205 °C	Class 2	20 s	0628 7533
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, T _{max} +120 °C		-50 to +120 °C	Class 1	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Measuring range short-term to +280 °C		-60 to +130 °C	Class 2	5 s	0602 4592
Surface temperature probe fitting with M 14 x 1.5 outer thread and 2 nuts, fast action surface probe with crossed strip		-50 to +180 °C	Class 2	3 s	0628 7521
Thermocouple, flexible, 800mm long, fibre glass		-50 to +400 °C	Class 2	5 s	0602 0644
Thermocouple, flexible, 1500mm long, fibre glass		-50 to +400 °C	Class 2	5 s	0602 0645
◆ Thermocouple, flexible, 1500mm long, Teflon		-50 to +250 °C	Class 2	5 s	0602 0646
Immersion tip, flexible		-200 to +1000 °C	Class 1	5 s	0602 5792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces		-50 to +400 °C	Class 2		0602 4892
◆ Waterproof immersion/penetration probe		-60 to +400 °C	Class 2	7 s	0602 1292
◆ Accurate and quick-action immersion probe, waterproof		-60 to +1000 °C	Class 1	2 s	0602 0592
Robust, affordable air probe		-60 to +400 °C	Class 2	25 s	0602 1792

◆ The specified seal class of the dataloggers is achieved with these probes.

testo 175-T3

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 175 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1750
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769
Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1759
ComSoft 3 - Basic Set with USB interface for testo 175, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1766
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points -18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set
testo 175-T3, Monitor high temperatures in hardening bays
<ul style="list-style-type: none"> - testo 175-T3, temperature datalogger, 2 channels, with 2 probe sockets, wall holder and calibration protocol (Part no. 0563 1756) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - 2 x Immersion tip, flexible (Part no. 0602 5792) - testo 580 data collector including readout holders (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

testo 175-T3, Temperature monitoring of industrial processes
<ul style="list-style-type: none"> - testo 175-T3, temperature datalogger, 2 channels, with 2 probe sockets, wall holder and calibration protocol (Part no. 0563 1756) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - 2 x Thermocouple, flexible, 1500mm long, fibre glass (Part no. 0602 0645) - testo 580 data collector including readout holders (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

Technical data	Channel, external	Channel, external
Probe type	Type T (Cu-CuNi)	Type K (NiCr-Ni)
Meas. range	-50 to +400 °C	-50 to +1000 °C
Accuracy ±1 digit	±0.5 °C (-50 to +70 °C) ±0.7 °C (+70.1 to +400 °C)	±0.7% of mv (+70.1 to +1000 °C) ±0.5 °C (-50 to +70 °C)
Resolution	0.1 °C	0.1 °C

Oper. temp.	0 to +70 °C	Dimensions	82 x 52 x 30 mm
Storage temp.	-40 to +85 °C	Warranty	2 years
Battery type	Lithium battery	Battery life: 2.5 years with a measuring cycle of 15 min (-10 to +50°C)	
Material/Housing	ABS	Measuring cycle: 10 s to 24 h	
Protection class	IP54	Software: Microsoft Windows 95b / 98 /	
Memory	16000	ME / NT4-Sp4 / 2000 / XP	
Weight	90 g		

testo 175-H1 / -H2

The affordable testo 175-H1/H2 humidity/temperature loggers monitor ambient humidity and temperature fluctuations efficiently and unobtrusively.

Limit values can be entered, an alarm display is activated if the limits are exceeded. testo 575, the fast printer, delivers proof of fluctuations in ambient conditions.

Internal humidity/temperature sensor

- Humidity sensor guaranteed long-term stable
- Non-volatile memory for secure data, even if battery is spent
- Fast documentation on the infrared printer, 6 lines/s
- Data transfer to PC or notebook via interface or testo 580 data collector
- Large display, can also be read at a distance (testo 175-H2)

testo 175-H1 without display

testo 175-H1, humidity/temperature logger, 2 channels, with internal sensors, wall holder and calibration protocol

Part no.
0563 1757

testo 175-H2 with display

testo 175-H2, humidity/temperature logger, 2 channels, with internal sensors, wall holder and calibration protocol

Part no.
0563 1758

Accessories	Part no.
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Transport and Protection

Transport case for up to 5 testo 175 dataloggers, testo 575 printer, testo 580 data collector and accessories 0516 1750

Lock for wall holder for testo 175/177 dataloggers 0554 1755

Additional accessories and spare parts

Battery, 3.6 V/0.8 Ah 1/2 AA, for testo 175-T3/175-H1/175-H2/175-S1/175-S2 0515 0175

testo 580 data collector including readout holders, For testo 175/177 dataloggers 0554 1778

testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc. 0554 1769

Printer and accessories

Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function 0554 1775

Spare thermal paper for printer (6 rolls) 0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years 0554 0568

Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly 0554 0561

Software and accessories

ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable 0554 1759

ComSoft 3 - Basic Set with USB interface for testo 175, Basic software with diagram and table function, incl. desk-top holders, PC connection cable 0554 1766

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0821

RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional) 0554 1757

USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional) 0554 1768

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network 0554 1711



testo 175-H2 with display
Actual size



testo 175-H1 without display

Accessories	Part no.
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Calibration certificates

ISO calibration certificate/Temperature; Temp. datalogger; calibration points -8°C; 0°C; +40°C 0520 0171

ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C 0520 0076

DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C 0520 0246

DKD calibration certificate/Temperature; Temp. datalogger; cal. points -20°C; 0°C; +60°C 0520 0261

Recommended set

testo 175-H1, Starter set

- testo 175-H1, humidity/temperature logger, 2 channels, with internal sensors, wall holder and calibration protocol (Part no. 0563 1757)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

testo 175-H2, Starter Set

- testo 175-H2, humidity/temperature logger, 2 channels, with internal sensors, wall holder and calibration protocol (Part no. 0563 1758)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

Technical data

	testo 175-H1	testo 175-H2
Meas. range Temperature (NTC)	-10 to +50 °C	-20 to +70 °C
Accuracy	±0.5 °C ±1 digit	±0.5 °C ±1 digit
Resolution	0.1 °C	0.1 °C
Oper. temp.	-10 to +50 °C	-20 to +70 °C
Storage temp.	-40 to +70 °C	-40 to +85 °C
Memory	3700	16000
Weight	80 g	85 g

Common data

Meas. range Testo humid. sensor, cap.	0 to +100 %RH	Battery life: 2.5 years with a measuring rate of 15 min (-10 to +50°C) Measuring rate: 10 s to 24 h Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP
Accuracy	±3 %RH ±1 digit	
Resolution	0.1 %RH	
Battery type	Lithium battery	
Dimensions	82 x 52 x 30 mm	
Warranty	2 years	

testo 175-S1 / -S2

Current/voltage datalogger

The dataloggers for logging current and voltage profiles in industrial processes. The loggers can be looped, for example, into the incoming line of a transmitter to log or monitor current signals.

testo 175-S2 shows the scaled signal directly in the display. Scaling is carried out in ComSoft.

- User-friendly operation, convenient analysis
- Non-volatile memory for secure data, even if the battery is empty
- On-site: Use testo 580 to collect data and transfer to your PC for analysis
- Data is read out without interrupting measurement

testo 175-S1 without display

testo 175-S1, current/voltage datalogger, 1 channel, with external terminal block, wall holder and calibration protocol

Part no.

0563 1759

testo 175-S2 with display

testo 175-S2, current/voltage datalogger with display, 1 channel, with external terminal block, wall holder and calibration protocol

Part no.

0563 1761


testo 175-S2 with display
Actual size

Accessories	Part no.
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Transport and Protection

Transport case for up to 5 testo 175 dataloggers, testo 575 printer, testo 580 data collector and accessories

0516 1750

Lock for wall holder for testo 175/177 dataloggers

0554 1755

Additional accessories and spare parts

Battery, 3.6 V/0.8 Ah 1/2 AA, for testo 175-T3/175-H1/175-H2/175-S1/175-S2

0515 0175

testo 580 data collector including readout holders, For testo 175/177 dataloggers

0554 1778

testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.

0554 1769

Printer and accessories

Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function

0554 1775

Spare thermal paper for printer (6 rolls)

0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years

0554 0568

Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly

0554 0561

Software and accessories

ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable

0554 1759

ComSoft 3 - Basic Set with USB interface for testo 175, Basic software with diagram and table function, incl. desk-top holders, PC connection cable

0554 1766

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)

0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)

0554 0821

RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)

0554 1757

USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)

0554 1768

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network

0554 1711

Calibration certificates

ISO calibration certificate/Electrical, Calibration in measurement ranges 0 to 20 mA; 4 to 20 mA; 0 to 1 V; 0 to 10 V

0520 1000

Recommended set

testo 175-S1, Starter set with fast-action printer

- testo 175-S1, current/voltage datalogger, 1 channel, with external terminal block, wall holder and calibration protocol (Part no. 0563 1759)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0554 1775)
- ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

testo 175-S2, Starter set with limit signal output

- testo 175-S2, current/voltage datalogger with display, 1 channel, with external terminal block, wall holder and calibration protocol (Part no. 0563 1761)
- testo 581 alarm signal output, floating, for testo 175/177 (Part no. 0554 1769)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- ComSoft 3 - Basic Set for testo 175, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1759)

Technical data

Meas. range	0 to 1 V / 0 to 10 V 0 to 20 mA / 4 to 20 mA	Oper. temp.	-10 to +50 °C
		Storage temp.	-40 to +70 °C
		Memory	16000
		Weight	80 g
Accuracy ±1 digit	± 2 mV (0 to 1 V) ± 20 mV (1 to 10 V) ± 0.05 mA (0 to 20 mA)	Battery type	Lithium battery
		Dimensions	82 x 52 x 30 mm
		Warranty	2 years
Resolution	1 mV (0 to 1 mV) 10 mV (1 to 10 mV) 0.01 mA (0 to 20 mA)	Battery life: 2.5 years with measuring cycle of 15 min (-10 to +50 °C)	
		Measuring cycle: 1 s to 24 h	
		Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	

testo 177-T1

Internal temperature sensor

The testo 177-T1 professional datalogger monitors specified storage and transport conditions in the refrigeration and deep-freeze sector efficiently and accurately over a period of months and years.

Temperature fluctuations, which cause damage, are documented on the testo 575 fast printer or analysed on your PC via interface.

- Specially for use in low temperatures (up to -40°C)
- On-site: Fast documentation on the infrared printer, 6 lines/s
- Collect data on-site with testo 580 and download to your PC for analysis
- Temperature logging of up to 48,000 readings

testo 177-T1, temperature datalogger, 1 channel, with internal sensor, wall holder and calibration protocol

Part no.

0563 1771



Accessories

Transport and Protection

Transport case for up to 5 testo 177 dataloggers, testo 575 printer, testo 580 data collector and accessories 0516 1770

Lock for wall holder for testo 175/177 dataloggers 0554 1755

Additional accessories and spare parts

Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers 0515 0177

testo 580 data collector including readout holders, For testo 175/177 dataloggers 0554 1778

testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc. 0554 1769

Printer and accessories

Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function 0554 1775

Spare thermal paper for printer (6 rolls) 0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years 0554 0568

Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly 0554 0561

Software and accessories

ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable 0554 1774

ComSoft 3 - Basic Set with USB interface for testo 177, Basic software with diagram and table function, incl. desk-top holders, PC connection cable 0554 1767

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0821

RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional) 0554 1757

USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional) 0554 1768

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network 0554 1711

Calibration certificates

ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C 0520 0151

DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C 0520 0261

Recommended set

testo 177-T1, Starter Set

- testo 177-T1, temperature datalogger, 1 channel, with internal sensor, wall holder and calibration protocol (Part no. 0563 1771)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- ComSoft 3 Set - Basic with RS 232 interface (Part no. 0554 1774)

Technical data

Probe type	NTC (internal)	Memory	48000
Meas. range	-40 to +70 °C	Weight	111 g
Accuracy	±0.4 °C (-25 to +70 °C)	Dimensions	103 x 64 x 33 mm
±1 digit	±0.8 °C (-40 to -25.1 °C)	Warranty	2 years
Resolution	0.1 °C	Battery lifetime: 5 years at measuring cycle of 15 min (-10 to +50°C)	
Oper. temp.	-40 to +70 °C	Measuring cycle: 2 s to 24 h	
Storage temp.	-40 to +85 °C	Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	
Battery type	Lithium battery		
Protection class	IP68		

testo 177-T2

Internal temperature sensor

testo 177-T2, the professional datalogger with display. It provides you with a quick overview of the current reading, the last value saved, max and min values and the number of times the limits were exceeded.

All of the values collected by the testo 580 data collector during long-term monitoring over months/years can be sent to your notebook/PC. Convenient analysis possible using software based on Windows®.

testo 177-T2, temperature datalogger, 1 channel, with internal sensor, wall holder and calibration protocol

Part no.
0563 1772

- Large display, can also be read from a distance
- Non-volatile memory for secure data, even if memory is spent
- On-site: Fast documentation with the infrared printer, 6 lines/s
- Collect data on-site using testo 580 and download to your PC for analysis



Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 177 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769

Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774

ComSoft 3 - Basic Set with USB interface for testo 177, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1767
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711

Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set	
testo 177-T2, Starter Set	
- testo 177-T2, temperature datalogger, 1 channel, with internal sensor, wall holder and calibration protocol (Part no. 0563 1772)	
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)	
- ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)	

Technical data			
Probe type	NTC (internal)	Memory	48000
Meas. range	-40 to +70 °C	Weight	122 g
Accuracy	±0.4 °C (-25 to +70 °C) ±1 digit	Dimensions	103 x 64 x 33 mm
Resolution	0.1 °C	Warranty	2 years
Oper. temp.	-40 to +70 °C	Battery life: 5 years with measuring cycle of 15 min (-10 to +50°C)	
Storage temp.	-40 to +85 °C	Measuring cycle: 2 s to 24 h	
Battery type	Lithium battery	Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP	
Protection class	IP68		

testo 177-T3

testo 177-T3 documents 3 temperatures and an event simultaneously providing proof of an uninterrupted cooling chain during transport or when monitoring production processes.

Surface, immersion and air probes make it possible to adapt to the respective measuring task. For example, complete monitoring of ambient air, intake and outgoing temperatures and simultaneous monitoring of the door or compressor is possible when monitoring transports. The measuring cycle of the event can be set completely independently of the measuring cycle for the temperature channels.

testo 177-T3, temperature datalogger, 3 channels, with internal sensor, 2 probe sockets, door contact connection cable, wall holder and calibration protocol

Part no.

0563 1773

Internal temperature sensor, 2 external temperature probe sockets and event logging

- Simultaneous temperature measurement at different sites
- Uninterrupted documentation, also for many years
- Reads out data without interrupting measurement
- Data analysis as table or graph, with e-mail function
- Temperature logging of up to 48,000 readings



Probes (NTC)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
◆ Stub probe, IP 54	35 mm Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
◆ Mounting probe with aluminium sleeve, IP 65	40 mm Ø 6 mm Conn.: Fixed cable; Cable/Length: 2.4 m	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
◆ Refrigeration storeroom probe with aluminium sleeve, IP 54, with silicone insulated ribbon cable		-40 to +90 °C (Short-term to +105 °C)	±0.2 °C (0 to +70 °C) ±0.4 °C (-35 to 0 °C) ±0.5 °C (remaining range)	190 s	0628 0042*
◆ Accurate imm./pen. probe, 6m cable, IP 67	40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 6 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725*
◆ Accurate immersion/penetration probe, cable: 1.5 m long, IP 67	40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0628 0006*
◆ Screw-in probes for measurements at hard-to-access points, M6 thread, IP 54		-50 to +80 °C	±0.5% of mv	70 s	0628 7514*
Probe for surface measurement	40 mm 8 x 8 mm Conn.: Fixed cable; Cable/Length: 2 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516*
Wall surface temperature probe, e.g. to prove damage in building material	Conn.: Fixed cable; Cable/Length: 3 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
Pipe probe with Velcro, for pipe diameter of max. 80 mm	300 mm 30 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611
◆ Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection	125 mm Ø 4 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211*

◆ The specified seal class of the dataloggers is achieved with these probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors

2) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

testo 177-T3

Accessories / Technical data

Probes (NTC)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
<ul style="list-style-type: none"> Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling 	<p>Conn.: Fixed cable; Cable/Length: 1.4 m</p>	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411*
<ul style="list-style-type: none"> Frozen food probe, corkscrew design 	<p>Conn.: Plug-in cable</p>	-50 to +140 °C ²⁾	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211*
Robust, affordable air probe to check storage temperatures	<p>Conn.: Fixed cable; Cable/Length: 1.2 m</p>	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0613 1711*

♦ The specified seal class of the dataloggers is achieved with these probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors
2) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 177 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Lock for wall holder for testo 175/177 dataloggers	0554 1755

Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769

Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561

Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774

ComSoft 3 - Basic Set with USB interface for testo 177, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1767
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ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
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ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
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RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
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USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
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Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
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Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set	
testo 177-T3, Temperature monitoring with printout on-site	

- testo 177-T3, temperature datalogger, 3 channels, with internal sensor, 2 probe sockets, door contact connection cable, wall holder and calibration protocol (Part no. 0563 1773)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- 2 x Mounting probe with aluminium sleeve, IP 65 (Part no. 0628 7503)
- Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0554 1775)
- ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

testo 177-T3, Refrigerated room monitoring	
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- testo 177-T3, temperature datalogger, 3 channels, with internal sensor, 2 probe sockets, door contact connection cable, wall holder and calibration protocol (Part no. 0563 1773)
- Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755)
- 2 x Accurate imm./pen. probe, 6m cable, IP 67 (Part no. 0610 1725)
- Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0554 1775)
- ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

Technical data		
Probe type	NTC (internal sensor)	NTC (external probes)
Meas. range	-40 to +70 °C	-40 to +120 °C
Accuracy	±0.4 °C (-25 to +70 °C) ±0.8 °C (-40 to -25.1 °C)	±0.2 °C (-25 to +70 °C) ±0.4 °C (remaining range)
Resolution	0.1 °C	0.1 °C

Oper. temp.	-40 to +70 °C	External: Event logging e.g. door contact Battery life: 5 years with meas. rate of 15 min (-10 to +50°C) Measuring rate: 2 s to 24 h Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP
Storage temp.	-40 to +85 °C	
Battery type	Lithium battery	
Protection class	IP67	
Memory	48000	
Weight	127 g	
Dimensions	103 x 64 x 33 mm	
Warranty	2 years	

testo 177-T4

The testo 177-T4 professional datalogger with up to 4 external temperature probe connections for simultaneous temperature measurement at different locations.

Fluctuations in temperature e.g. in production processes, in laboratories etc. often influence the overall result. Surface, immersion and air probes enable adaptation to the respective measurement task.

Temperature datalogger, 4 channel, with 4 probe sockets, wall holder and calibration protocol

Part no.

0563 1774

4 external temperature probe sockets

- Specially for use in high and low temperatures
- Read out data without interrupting the measurement series
- Data analysis in table or graphics form, with email function
- Memory for up to 48,000 readings
- Collect data on site, upload to PC and analyse
- Alarm message, efficient indication of limits exceeded
- Memory for up to 48,000 readings



Probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
◆ Industrial probe with stainless steel sleeve		-50 to +205 °C	Class 2	20 s	0628 7533
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, T _{max} +120°C		-50 to +120 °C	Class 1	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Measuring range short-term to +280°C		-60 to +130 °C	Class 2	5 s	0602 4592
Surface temperature probe fitting with M 14 x 1.5 outer thread and 2 nuts, fast action surface probe with crossed strip		-50 to +180 °C	Class 2	3 s	0628 7521
Thermocouple, flexible, 800mm long, fibre glass		-50 to +400 °C	Class 2	5 s	0602 0644
Thermocouple, flexible, 1500mm long, fibre glass		-50 to +400 °C	Class 2	5 s	0602 0645
◆ Thermocouple, flexible, 1500mm long, Teflon		-50 to +250 °C	Class 2	5 s	0602 0646
Immersion tip, flexible		-200 to +1000 °C	Class 1	5 s	0602 5792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces		-50 to +400 °C	Class 2		0602 4892
◆ Waterproof immersion/penetration probe		-60 to +400 °C	Class 2	7 s	0602 1292
◆ Accurate and quick-action immersion probe, waterproof		-60 to +1000 °C	Class 1	2 s	0602 0592
Robust, affordable air probe		-60 to +400 °C	Class 2	25 s	0602 1792

◆ The specified seal class of the dataloggers is achieved with these probes.

testo 177-T4

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 177 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769
Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774
ComSoft 3 - Basic Set with USB interface for testo 177, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1767
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set
testo 177-T4, Monitor high temperatures in production processes
<ul style="list-style-type: none"> - Temperature datalogger, 4 channel, with 4 probe sockets, wall holder and calibration protocol (Part no. 0563 1774) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - 2 x Immersion tip, flexible (Part no. 0602 5792) - testo 580 data collector including readout holders (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

testo 177-T4, Monitor temperature distribution in heat cabinets
<ul style="list-style-type: none"> - Temperature datalogger, 4 channel, with 4 probe sockets, wall holder and calibration protocol (Part no. 0563 1774) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - 4 x Thermocouple, flexible, 1500mm long, fibre glass (Part no. 0602 0645) - testo 580 data collector including readout holders (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

Set for monitoring technical systems
<ul style="list-style-type: none"> - Temperature datalogger, 4 channel, with 4 probe sockets, wall holder and calibration protocol (Part no. 0563 1774) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - 2 x Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Measuring range short-term to +280°C (Part no. 0602 4592) - testo 580 data collector including readout holders (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

Technical data	
Meas. range	-200 to +400 °C (Type T (Cu-CuNi)) -195 to +1000 °C (Type K (NiCr-Ni)) -100 to +750 °C (Type J (Fe-CuNi))
Accuracy ±1 digit	±0.5% of mv (+70.1 to +1000 °C) ±1% of mv (-200 to -100.1 °C) ±0.3 °C (-100 to +70 °C)
Resolution	0.1 °C

Material/Housing	ABS	Battery life: 5 years with measuring cycle of 15 min (-10 to +50°C) Measuring cycle: 2 s to 24 h Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP
Oper. temp.	0 to +70 °C	
Storage temp.	-40 to +85 °C	
Battery type	Lithium battery	
Protection class	IP43	
Memory	48000	
Weight	129 g	
Dimensions	103 x 64 x 33 mm	
Warranty	2 years	

testo 177-H1

Sensitive products require the right ambient conditions during production and storage. Efficient measurement and documentation of readings over months/years is possible with the professional testo 177-H1 datalogger.

Additional surface, immersion and air probes can be attached to the datalogger e.g. for uninterrupted measurement of the dewpoint difference.



Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol

Part no.
0563 1775

Internal humidity/temperature sensor, 1 external temperature probe socket

- Long-term stable humidity sensor with fast response time
- Control and adjustment option with adjustment set
- Protective caps for dirt-ingressed air or corrosive gases
- Convenient documentation with infrared printer or PC/notebook
- Memory for up to 48,000 readings



Probes (NTC)	Illustration	Meas. range	Accuracy	t ₉₀	Part no.
◆ Stub probe, IP 54	 35 mm Ø 3 mm	-20 to +70 °C	±0.2 °C (-20 to +40 °C) ±0.4 °C (+40.1 to +70 °C)	15 s	0628 7510
◆ Mounting probe with aluminium sleeve, IP 65	 40 mm Ø 6 mm Conn.: Fixed cable; Cable/Length: 2.4 m	-30 to +90 °C	±0.2 °C (0 to +70 °C) ±0.5 °C (remaining range)	190 s	0628 7503*
◆ Refrigeration storeroom probe with aluminium sleeve, IP 54, with silicone insulated ribbon cable	 40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 6 m	-40 to +90 °C (Short-term to +105 °C)	±0.2 °C (0 to +70 °C) ±0.4 °C (-35 to 0 °C) ±0.5 °C (remaining range)	190 s	0628 0042*
◆ Accurate imm./pen. probe, 6m cable, IP 67	 40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 6 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0610 1725*
◆ Accurate immersion/penetration probe, cable: 1.5 m long, IP 67	 40 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-35 to +80 °C	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	5 s	0628 0006*
◆ Screw-in probes for measurements at hard-to-access points, M6 thread, IP 54	 Conn.: Fixed cable; Cable/Length: 2 m	-50 to +80 °C	±0.5% of mv	70 s	0628 7514*
Probe for surface measurement	 40 mm 8 x 8 mm Conn.: Fixed cable; Cable/Length: 2 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	150 s	0628 7516*
Wall surface temperature probe, e.g. to prove damage in building material	 Conn.: Fixed cable; Cable/Length: 3 m	-50 to +80 °C	±0.2 °C (0 to +70 °C)	20 s	0628 7507
Pipe probe with Velcro, for pipe diameter of max. 80 mm	 300 mm 30 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)		0613 4611
◆ Food probe (IP65) stainless steel, PUR cable can be used at up to +80°C, IP54 plug-in connection	 125 mm Ø 4 mm 15 mm Ø 3 mm Conn.: Fixed cable; Cable/Length: 1.5 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211*
◆ Robust food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced protection against buckling	 115 mm Ø 5 mm 30 mm Ø 3.5 mm Conn.: Fixed cable; Cable/Length: 1.4 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411*
◆ Frozen food probe, corkscrew design	 110 mm Ø 8 mm 30 mm Ø 4 mm Conn.: Plug-in cable	-50 to +140 °C ²⁾	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211*
Robust, affordable air probe to check storage temperatures	 110 mm Ø 4 mm Conn.: Fixed cable; Cable/Length: 1.2 m	-50 to +150 °C ²⁾	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0613 1711*

◆ The specified seal class of the dataloggers is achieved with these probes.

* Probe tested to EN 12830 for suitability in the transport and storage sectors
2) Long-term measurement range +125°C, short-term +150°C or +140°C (2 minutes)

testo 177-H1

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case for up to 5 testo 177 dataloggers, testo 575 printer, testo 580 data collector and accessories	0516 1770
Lock for wall holder for testo 175/177 dataloggers	0554 1755
Additional accessories and spare parts	
Battery, 3.6 V/1.9 Ah 1AA, for testo 175-T1/175-T2 and all testo 177 loggers	0515 0177
testo 580 data collector including readout holders, For testo 175/177 dataloggers	0554 1778
testo 581 alarm signal output, floating, for testo 175/177, Forwards information efficiently when limits are exceeded to e.g. horns, lamps, PLC etc.	0554 1769
Printer and accessories	
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561
Software and accessories	
ComSoft 3 Set - Basic with RS 232 interface, Basic software with diagram and table function, incl. desk-top holder, PC connection cable	0554 1774
ComSoft 3 - Basic Set with USB interface for testo 177, Basic software with diagram and table function, incl. desk-top holders, PC connection cable	0554 1767
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Accessories: Humidity probes	
Metal protection cage, Ø 12 mm for humidity probes, For velocities of less than 10 m/s	0554 0755
Cap with wire mesh filter, Ø 12 mm	0554 0757
Teflon sintered filter, Ø 12 mm, for corrosive substances, High humidity range (long-term measurements), high velocities	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe, For measurements at high velocity speeds or in dirt ingressed air	0554 0647
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe	0554 0660

Accessories	Part no.
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246

Recommended set
testo 177-H1, Standard Set for logging ambient air conditions
<ul style="list-style-type: none"> - Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol (Part no. 0563 1775) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0554 1775) - ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

testo 177-H1, Professional Set for measuring dew point difference
<ul style="list-style-type: none"> - Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol (Part no. 0563 1775) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - Wall surface temperature probe, e.g. to prove damage in building material (Part no. 0628 7507) - Fast testo 575 printer, incl. 1 roll of thermal paper and batteries (Part no. 0554 1775) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable (Part no. 0554 1757)

Set for logging ambient conditions and additional temp. measurement
<ul style="list-style-type: none"> - Humidity/temperature logger, 4 channels, with internal sensors and additional external temperature probe socket, wall holder and calibration protocol (Part no. 0563 1775) - Lock for wall holder for testo 175/177 dataloggers (Part no. 0554 1755) - Accurate imm./pen. probe, 6m cable, IP 67 (Part no. 0610 1725) - testo 580 data collector including readout holders, For testo 175/177 dataloggers (Part no. 0554 1778) - ComSoft 3 - Basic Set for testo 177, Basic software incl. interface, desk-top holder, PC connection cable (Part no. 0554 1774)

Technical data				
Probe type	NTC (Internal)	NTC (External)	Testo humid. sensor, cap.	Dewpoint calculated
Meas. range	-20 to +70 °C	-40 to +120 °C	0 to +100 %RH	-40 to +70 °C td
Accuracy ±1 digit	±0.5 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (remaining range)	±2 %RH	
Resolution	0.1 °C	0.1 °C	0.1 %RH	0.1% of mv

Oper. temp.	-20 to +70 °C	Battery life: 5 years with a measuring rate of 15 min (-10 to +50°C) Measuring cycle: 2 s to 24 h Software: Microsoft Windows 95b / 98 / ME / NT4-Sp4 / 2000 / XP
Storage temp.	-40 to +85 °C	
Battery type	Lithium battery	
Protection class	IP54	
Memory	48000	
Weight	130 g	
Dimensions	103 x 64 x 33 mm	
Warranty	2 years	

testostor 171-0

testostor 171-0 is a temperature datalogger in a full-metal housing with built-in temperature probe. A long life is guaranteed even in tough conditions.

The data is sent to a PC via the attachable interface. The optional attachable display makes it possible to check current readings on site.

testostor 171-0, temperature datalogger, incl. starting magnet, battery and calibration protocol

Part no.
0577 1719

Internal temperature sensor

- Large memory for up to 55,000 readings
- Theft-proof mounting
- Tamperproof readings
- Visual alarm, battery-operated (optional)
- Infrared data transmission
- With calibration protocol
- On-site application: Testo software for Palm OS® replaces laptop/PC



Waterproof, robust metal housing, IP68

Attachable display, monitors readings on location



Accessories	Part no.
Transport and Protection	

Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport 0516 0117

Holder with lock for datalogger, Theft-proof 0554 1782

Lock for attached display, Suitable for holder 0554 1782 0554 1789

Additional accessories and spare parts

Display can be attached to datalogger, For quick checks on site 0554 0176

Display with print option, can be attached to datalogger, For quick checks on site 0554 0175

Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded 0628 0025

Spare battery for testostor 171, Quick and easy battery replacement 0515 0018

Printer and accessories

Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site 0554 0547

Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally 0554 0110

Spare thermal paper for printer (6 rolls) 0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years 0554 0568

Software and accessories

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0821

Interface, attachable to testostor 171 datalogger 0554 1781

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network 0554 1711

Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. 0554 0805

* Palm™ handheld computer and serial data cable are not included.

Accessories	Part no.
Calibration certificates	

ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C 0520 0151

DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C 0520 0261

ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C 0520 0171

ISO calibration cert./Temperature, Temperature datalogger; calibration points selectable from -196 to +1300°C 0520 0141

DKD calibration certificate/Temperature, Datalogger, transmitter, probe without display; cal. points freely selectable from -196 to +1000°C 0520 0281

Set	Part no.
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Set 1: Without display

testostor 171-0 Set 1, incl. temperature datalogger with magnetic start function, battery, calibration protocol and software with interface 0563 1719

Set 2: With display

testostor 171-0 Set 2, incl. temperature datalogger with magnetic start function, battery, calibration protocol, software with interface and attachable display (without printing function) 0563 0176

Recommended set

testostor 171-0, Starter Set

- testostor 171-0 Set 1, incl. temperature datalogger with magnetic start function, battery, calibration protocol and software with interface (Part no. 0563 1719)
- Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data			
Probe type	NTC (Internal)	Battery type	Lithium battery
Meas. range	-35 to +70 °C	Dimensions	131 x 68 x 26 mm
Accuracy	±0.5 °C (-35 to +39.9 °C) ±1 digit ±0.6 °C (+40 to +70 °C)	Weight	305 g
Resolution	0.1 °C	Protection class	IP68
Oper. temp.	-35 to +70 °C	Warranty	2 years
Storage temp.	-40 to +85 °C	Battery life: lithium battery up to 5 years	
Memory	55000	Software: menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Material/Housing	Aluminium, anodized		

Ex 171-0

Datalogger for Ex zone with an internal temperature sensor

The Ex 171-0, in its extremely robust metal housing, guarantees a high measuring accuracy level for long-term measurements in hazardous areas.

The interface to download the data to your PC is attached outside the hazard area. The data is analysed in table or graphics form via easy-to-use software.

Ex 171-0, Temperature datalogger, incl. starting magnet, battery and calibration protocol

Part no.
0577 1730

- Tamper-proof readings
- Theft-proof mounting
- Large memory for 55,000 readings



Water-proof, robust metal housing, IP 68



TUV 00 ATEX 1586

Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport. Not for use in Ex-zone	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) (not for use in Ex zone)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) (not for use in Ex zone)	0554 0821
Interface, attachable to testostor 171 datalogger (not for use in Ex zone)	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network (not for use in Ex zone)	0554 1711
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 18°C; 0°C; +60°C	0520 0151
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261

Recommended set
Ex 171-0, The Set in the Case
<ul style="list-style-type: none"> - Ex 171-0, Temperature datalogger, incl. starting magnet, battery and calibration protocol (Part no. 0577 1730) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - Interface, attachable to testostor 171 datalogger (Part no. 0554 1781) - Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data	
Probe type	NTC (Internal)
Meas. range	-35 to +70 °C
Accuracy	±0.5 °C (-35 to +39.9 °C) ±1 digit ±0.6 °C (+40 to +70 °C)
Resolution	0.1 °C
Oper. temp.	-35 to +70 °C
Storage temp.	-40 to +85 °C
Memory	55000
Material/Housing	Aluminium, anodized
Battery type	Lithium battery
Dimensions	131 x 68 x 26 mm
Weight	305 g
Protection class	IP68
Warranty	2 years
Battery life: Lithium battery up to 5 years	
Software: Menu-driven from DOS version 3.1 and Windows version 3.0	

testostor 171-1

You can place the testostor 171-1 datalogger beside the goods and attach the separate probe to doors or refrigeration appliances up to 12 m away. Air moisture can also be checked, if required.

testostor 171-1, temperature datalogger with °C/%RH probe connection, incl. starting magnet, battery and calibration protocol

Part no.

0577 1715

Internal temperature sensor and one external temperature probe socket

- Tamperproof measured data
- Attachable: display, display with printing option, optical alarm display
- Clear printout on site on the Testo printer
- Data analysis on your PC with user-friendly Windows® software: all measurement and limit values at a glance
- On-site application: Testo software for Palm OS® replaces laptop/PC
- Large memory for up to 55,000 readings



Temperature probes (NTC)

Robust immersion/air probe, quick-action, 6m cable, IP68 probe tip



Conn.: Fixed cable 6 m

Meas. range

-50 to +80 °C

Accuracy

±0.2 °C (-25 to +80 °C)
±0.4 °C (-50 to -25.1 °C)

Reaction time

5 s
t₉₉ (in water)

Part no.

0610 1720

Air probe, highly accurate, can be attached directly



-35 to +70 °C

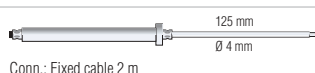
±0.2 °C (-35 to +70 °C)

180 s

t₉₀

0610 1722

Robust, accurate, waterproof food probe (IP65), made of stainless steel



Conn.: Fixed cable 2 m

-50 to +120 °C

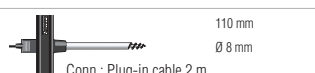
±0.2 °C (-25 to +80 °C)
±0.4 °C (-50 to -25.1 °C)
±0.5 °C (+80.1 to +120 °C)

10 s

t₉₉ (in water)

0610 2217

Frozen food probe, corkscrew design



Conn.: Plug-in cable 2 m

-50 to +120 °C

±0.2 °C (-25 to +80 °C)
±0.4 °C (-50 to -25.1 °C)
±0.5 °C (+80.1 to +120 °C)

8 s

t₉₉ (in water)

0610 3217

Pipe probe with Velcro, measures flow/return temperature, pipe diameter max. 80 mm



Conn.: Fixed cable 3 m

-50 to +80 °C

±0.2 °C (-25 to +80 °C)
±0.4 °C (-50 to -25.1 °C)

0610 4617

Wall surface temperature probe, e.g. provides proof of damage to building material, cable 6.1m long, probe tip 40x15x0.2 mm



Conn.: Fixed cable 6.1 m

-50 to +120 °C

±0.5 °C (-50 to +120 °C)

20 s

t₉₀

0628 0007

Humidity/temperature probes

Humidity/temperature probe with standard plastic protection cap



Cable/Length 3 m

Meas. range

0 to +100 %RH
-20 to +70 °C

Accuracy

±2 %RH (+2 to +98 %RH)
±0.4 °C (-10 to +50 °C)
±0.5 °C (remaining range)

t₉₀

12 s

Part no.

0636 9717

Mini humidity/temperature module for measurements at inaccessible points, module cable 1.5m long, probe tip 49x18x7mm



Cable/Length 1.5 m

0 to +100 %RH
-20 to +120 °C

±2 %RH (+2 to +98 %RH)

±0.5 °C (-20 to +120 °C)

20 s

0628 0008

testostor 171-1

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Additional accessories and spare parts	
Display can be attached to datalogger, For quick checks on site	0554 0176
Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018
Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805
Calibration certificates	
ISO calibration cert./Temperature, Temperature datalogger; calibration points selectable from -196 to +1300°C	0520 0141
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration certificate/Temperature, Datalogger, transmitter, probe without display; cal. points freely selectable from -196 to +1000°C	0520 0281
ISO calibration certificate/Humidity, Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0006
ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
DKD calibration certificate/Humidity, Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0206
DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246

Recommended set
testostor 171-1, Standard set
<ul style="list-style-type: none"> - testostor 171-1, temperature datalogger with °C/%RH probe connection, incl. starting magnet, battery and calibration protocol (Part no. 0577 1715) - Robust immersion/air probe, quick-action, 6m cable, IP68 probe tip (Part no. 0610 1720) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - Interface, attachable to testostor 171 datalogger (Part no. 0554 1781) - Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data			
Probe type	NTC (External)	NTC (Internal)	Testo humid. sensor, cap.
Meas. range	-50 to +120 °C	-35 to +70 °C	0 to +100 %RH
Accuracy ±1 digit	±0.2 °C (-34.9 to +39.9 °C) ±0.4 °C (+40 to +120 °C) ±0.6 °C (-50 to -35 °C)	±0.2 °C (-35 to +39.9 °C) ±0.4 °C (+40 to +70 °C)	±2 %RH (+2 to +98 %RH)
Resolution	0.1 °C	0.1 °C	0.1 %RH (0 to +100 %RH)

Oper. temp.	-35 to +70 °C	Dimensions	131 x 68 x 26 mm
Storage temp.	-40 to +85 °C	Warranty	2 years
Battery type	Lithium battery	Meas. rate: 2 s to 24 h, selectable	
Material/Housing	Aluminium, anodized	Battery life: up to 5 years with lithium battery	
Protection class	IP65	Software: menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Memory	55000		
Weight	305 g		

testostor 171-4

testostor 171-4 with up to 4 external temperature probes is used for simultaneous temperature recording at different locations e.g. in production processes or in storage areas.

testostor 171-4, temperature data logger, 4 channels, with starting magnet, battery and calibration protocol

Part no.

0577 1714

4 external temperature probe sockets

- Tamperproof measured data
- Attachable: Display, display with printing option, visual alarm display
- Clear printout on site on the Testo printer
- Data analysis on your PC with user-friendly Windows® software: all measurement and limit values at a glance
- Large memory for up to 55,000 readings
- With calibration protocol



Temperature probes (NTC)	Illustration	Meas. range	Accuracy	Reaction time	Part no.
Robust immersion/air probe, quick-action, 6m cable, IP68 probe tip	<p>40 mm Ø 3 mm</p> <p>Conn.: Fixed cable 6 m</p>	-50 to +80 °C	± 0.2 °C (-25 to +80 °C) ± 0.4 °C (-50 to -25.1 °C)	5 s t_{99} (in water)	0610 1720
Air probe, highly accurate, can be attached directly	<p>30 mm Ø 3 mm</p> <p>Ø 3 mm</p>	-35 to +70 °C	± 0.2 °C (-35 to +70 °C)	180 s t_{90}	0610 1722
Robust, accurate, waterproof food probe (IP65), made of stainless steel	<p>125 mm Ø 4 mm</p> <p>Ø 3 mm</p> <p>Conn.: Fixed cable 2 m</p>	-50 to +120 °C	± 0.2 °C (-25 to +80 °C) ± 0.4 °C (-50 to -25.1 °C) ± 0.5 °C (+80.1 to +120 °C)	10 s t_{99} (in water)	0610 2217
Frozen food probe, corkscrew design	<p>110 mm Ø 8 mm</p> <p>30 mm Ø 4 mm</p> <p>Conn.: Plug-in cable 2 m</p>	-50 to +120 °C	± 0.2 °C (-25 to +80 °C) ± 0.4 °C (-50 to -25.1 °C) ± 0.5 °C (+80.1 to +120 °C)	8 s t_{99} (in water)	0610 3217
Pipe probe with Velcro, measures flow/return temperature, pipe diameter max. 80 mm	<p>Ø 80 mm</p> <p>Conn.: Fixed cable 3 m</p>	-50 to +80 °C	± 0.2 °C (-25 to +80 °C) ± 0.4 °C (-50 to -25.1 °C)		0610 4617
Wall surface temperature probe, e.g. provides proof of damage to building material, cable 6.1m long, probe tip 40x15x0.2 mm	<p>Conn.: Fixed cable 6.1 m</p>	-50 to +120 °C	± 0.5 °C (-50 to +120 °C)	20 s t_{90}	0628 0007

testostor 171-4

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Additional accessories and spare parts	
Display can be attached to datalogger, For quick checks on site	0554 0176
Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018
Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805
Calibration certificates	
ISO calibration cert./Temperature, Temperature datalogger; calibration points selectable from -196 to +1300°C	0520 0141
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration certificate/Temperature, Datalogger, transmitter, probe without display; cal. points freely selectable from -196 to +1000°C	0520 0281

Recommended set
testostor 171-4, 4 x temperature measurement at different locations
<ul style="list-style-type: none"> - testostor 171-4, temperature data logger, 4 channels, with starting magnet, battery and calibration protocol (Part no. 0577 1714) - 4 x Robust immersion/air probe, quick-action, 6m cable, IP68 probe tip (Part no. 0610 1720) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - Interface, attachable to testostor 171 datalogger (Part no. 0554 1781) - Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data			
Probe type	NTC (External)	Material/Housing	Aluminium, anodized
Meas. range	-50 to +120 °C	Protection class	IP65
Accuracy	±0.2 °C (-34.9 to +39.9 °C)	Memory	55000
±1 digit	±0.4 °C (+40 to +120 °C)	Weight	305 g
	±0.6 °C (-50 to -35 °C)	Dimensions	131 x 68 x 26 mm
		Warranty	2 years
Resolution	0.1 °C	Measuring rate: 2 s to 24 h, selectable	
Oper. temp.	-35 to +70 °C	Battery life: Lithium battery up to 5 years	
Storage temp.	-40 to +85 °C	Software: menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Battery type	Lithium battery		

testostor 171-8

testostor 171-8, a compact datalogger with 4 external thermocouple connections. The data logger is equipped for two different types of thermocouple:

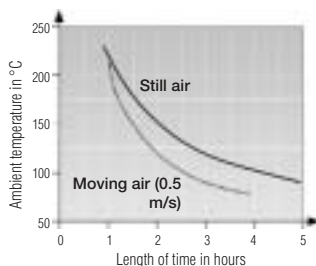
- Type K (NiCr-Ni), quick-action probes for measurements from -200 to +1000°C
- Type T (Cu-CuNi), fast, accurate probes for measurements from -50 to +350°C

testostor 171-8, temperature datalogger, 4 channels, with starting magnet, battery and calibration protocol

Part no.
0577 1718

4 external temperature probe sockets for high temperatures

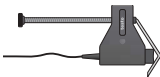
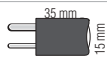

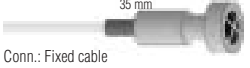
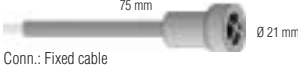




- On-site application: Testo software for Palm OS® replaces laptop/PC
- Connection to all Testo thermocouple probes (Type K/T) possible with thermocouple plug
- Large memory for up to 55,000 readings



The diagram shows how long testostor 171-8 in a heat-proof case can be subjected to a certain ambient inner temperature before the maximum inner temperature of +70 °C is reached.



Heat-proof case made of solid aluminium housing protects datalogger (optional). When the heat-proof case is used, the data logger can handle processes with an operating temperature of up to +200°C

Probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Measuring range short-term to +280°C	 Conn.: Fixed cable	-60 to +130 °C	Class 2	5 s	0602 4592
Spare meas. head for pipe wrap probe	 35 mm 15 mm	-60 to +130 °C	Class 2	5 s	0602 0092
Clamp probe for measurements on pipes, pipe diameter 15 to 25 mm (max. 1"), meas. range short-term up to +130°C	 Conn.: Fixed cable	-50 to +100 °C	Class 2	5 s	0602 4692
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces	 35 mm Ø 20 mm Conn.: Fixed cable	-50 to +170 °C	Class 2		0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces	 75 mm Ø 21 mm Conn.: Fixed cable	-50 to +400 °C	Class 2		0602 4892
Immersion tip, flexible	 500 mm Ø 1.5 mm	-200 to +1000 °C	Class 1	5 s	0602 5792
Thermocouple, flexible, 800mm long, fibre glass	 800 mm Ø 1.5 mm	-50 to +400 °C	Class 2	5 s	0602 0644
Thermocouple, flexible, 1500mm long, fibre glass	 1500 mm Ø 1.5 mm	-50 to +400 °C	Class 2	5 s	0602 0645
Thermocouple, flexible, 1500mm long, Teflon	 1500 mm Ø 1.5 mm	-50 to +250 °C	Class 2	5 s	0602 0646

Connection to all Testo thermocouple probes (Type K/T) possible with thermocouple plug

testostor 171-8

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Heat-proof case with heat-proof insert, rubber seal, 4 clamp screw connections for thermocouples with diameter of 1.5 mm, protects testostor 171-8 from hot environment	0553 1701
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Extension cable, 5m, for Type K thermocouple probe	0554 0592

Additional accessories and spare parts	
Display can be attached to datalogger, For quick checks on site	0554 0176

Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018

Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568

Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805

Calibration certificates	
ISO calibration cert./Temperature, Temperature datalogger; calibration points selectable from -196 to +1300°C	0520 0141
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration certificate/Temperature, Datalogger, transmitter, probe without display; cal. points freely selectable from -196 to +1000°C	0520 0281

Recommended set	
testostor 171-8, Food set	
<ul style="list-style-type: none"> - testostor 171-8, temperature datalogger, 4 channels, with starting magnet, battery and calibration protocol (Part no. 0577 1718) - 4 x Immersion tip, flexible (Part no. 0602 5792) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - Interface, attachable to testostor 171 datalogger (Part no. 0554 1781) - Display can be attached to datalogger (Part no. 0554 0176) - Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117) 	

Technical data		
Probe type	Type K (NiCr-Ni)	Type T (Cu-CuNi)
Meas. range	-200 to +1000 °C	-50 to +350 °C
Accuracy	±(0.4 °C ±0.2% of mv)	±(0.4 °C ±0.2% of mv)
Resolution	0.1 °C (-200 to +249.9 °C) 1 °C (+250 to +1000 °C)	0.1 °C (-50 to +249.9 °C) 1 °C (+250 to +350 °C)

Oper. temp.	0 to +70 °C	Dimensions	131 x 68 x 26 mm
Storage temp.	-40 to +85 °C	Warranty	2 years
Battery type	Lithium battery	Measuring rate: 2s to 24h, selectable	
Material/Housing	Aluminium, anodized	Battery life: up to 5 years	
Protection class	IP42	Software: Menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Memory	55000		
Weight	305 g		

Heat-proof case			
When the heat-proof case is used, the data logger can handle processes with an operating temperature of up to +200°C		Dimensions	260x160x90 mm
		Material/Housing	Aluminium, anodized
		Warranty	2 years

testostor 171-3

Internal humidity/temperature sensor

testostor 171-3, a compact data logger with an internal humidity/temperature probe which can be quickly positioned directly on site.

The saved data can be documented on site on the Testo printer or can be analysed on your PC via interface and software.

testostor 171-3, humidity data logger for %RH, °C with starting magnet, battery and calibration protocol

Part no.
0577 1713

- Attachable display, checks readings on site
- Control and adjustment option using adjustment set
- Measuring cycle: 2 s to 24 h, selectable
- Easy battery replacement
- DKD calibration possible
- Sintered cap protection for dusty environments (see Accessories)
- Suitable for outdoor use
- Protection class IP65
- Data analysis on PC
- On-site application: Testo software for Palm OS® replaces laptop/PC



Accessories	Part no.
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Transport and Protection

Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport 0516 0117

Holder with lock for datalogger, Theft-proof 0554 1782

Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe, Protection in case of high mechanical load and high velocities 0554 0640

Lock for attached display, Suitable for holder 0554 1782 0554 1789

Additional accessories and spare parts

Display can be attached to datalogger, For quick checks on site 0554 0176

Display with print option, can be attached to datalogger, For quick checks on site 0554 0175

Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded 0628 0025

Spare battery for testostor 171, Quick and easy battery replacement 0515 0018

Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe 0554 0660

Printer and accessories

Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site 0554 0547

Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally 0554 0110

Spare thermal paper for printer (6 rolls) 0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years 0554 0568

Software and accessories

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) 0554 0821

Interface, attachable to testostor 171 datalogger 0554 1781

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network 0554 1711

Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. 0554 0805

* Palm™ handheld computer and serial data cable are not included.

Accessories	Part no.
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Calibration certificates

ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C 0520 0171

DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C 0520 0246

ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C 0520 0076

Set	Part no.
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Set 1: Without display

testostor 171-3 Set 1, incl. humidity datalogger for %RH, °C with starting magnet, battery, calibration protocol and software with interface 0563 1713

Set 2: With display

testostor 171-3 Set 2, incl. humidity datalogger for %RH, °C with starting magnet, battery, calibration protocol, software with interface and attachable display (without printing function) 0563 3176

Recommended set

The set in the case

- testostor 171-3 Set 1, incl. humidity datalogger for %RH, °C with starting magnet, battery, calibration protocol and software with interface (Part no. 0563 1713)
- Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data		
Probe type	NTC	Testo humid. sensor, cap.
Meas. range	-10 to +50 °C	0 to +100 %RH
Accuracy ±1 digit	±0.5 °C (-10 to +39.9 °C) ±0.6 °C (+40 to +50 °C)	±3 %RH (+2 to +98 %RH)
Resolution	0.1 °C (-10 to +50 °C)	0.1 %RH (0 to +100 %RH)

Oper. temp.	-20 to +70 °C	Protection class	IP65
Storage temp.	-40 to +85 °C	Warranty	2 years
Memory	20000	Measuring rate: 2 s to 24 h, selectable	
Material/Housing	Aluminium, anodized	Battery life: up to 5 years	
Battery type	Lithium battery	Software: menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Dimensions	131 x 68 x 84 mm		
Weight	320 g		

Ex 171-3

Datalogger for Ex zone with internal humidity/temperature sensor

The Ex 171-3, in its extremely robust metal housing, guarantees a high measuring accuracy level for long-term measurements in hazardous areas.

The interface to download the data to your PC is attached outside the hazard area. The data is analysed in table or graph form via easy-to-use software.

Ex 171-3, humidity datalogger
%RH, °C, incl. starting magnet, battery and calibration protocol

Part no.
0577 1733

- Tamper-proof readings
- Theft-proof mounting
- Control and adjustment option with adjustment set



TÜV 00 ATEX 1586

Accessories	Part no.
Transport and Protection	

Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport. Not for use in Ex-zone

0516 0117

Holder with lock for datalogger, Theft-proof

0554 1782

Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe, Protection in case of high mechanical load and high velocities

0554 0640

Additional accessories and spare parts

Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe (not for use in Ex zone)

0554 0660

Software and accessories

ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) (not for use in Ex zone)

0554 0830

ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface) (not for use in Ex zone)

0554 0821

Interface, attachable to testostor 171 datalogger (not for use in Ex zone)

0554 1781

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network (not for use in Ex zone)

0554 1711

Calibration certificates

ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C

0520 0076

DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C

0520 0246

ISO calibration certificate/Temperature, Temp. datalogger; calibration points -18°C; 0°C; +60°C

0520 0151

ISO calibration certificate/Temperature, Temp. datalogger; calibration points -8°C; 0°C; +40°C

0520 0171

DKD calibration certificate/Temperature, Temp. datalogger; cal. points -20°C; 0°C; +60°C

0520 0261

Recommended set

Ex 171-3, The Set in the Case

- Ex 171-3, humidity datalogger %RH, °C, incl. starting magnet, battery and calibration protocol (Part no. 0577 1733)
- ComSoft 3 - Professional with data management (Part no. 0554 0830)
- Interface, attachable to testostor 171 datalogger (Part no. 0554 1781)
- Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117)

Technical data

Probe type	NTC	Testo humid. sensor, cap.
Meas. range	-10 to +50 °C	0 to +100 %RH
Accuracy ±1 digit	±0.4 °C (-10 to +50 °C)	±2 %RH (+2 to +98 %RH)
Resolution	0.1 °C (-10 to +50 °C)	0.1 %RH (0 to +100 %RH)

Oper. temp.	-10 to +50 °C	Protection class	IP65
Storage temp.	-40 to +85 °C	Warranty	2 years
Memory	20000	Battery life: Lithium battery up to 5 years	
Material/Housing	Aluminium, anodized	Software: Menu-driven from DOS version 3.1 and Windows version 3.0	
Battery type	Lithium battery		
Dimensions	131 x 72 x 68 mm		
Weight	320 g		

testostor 171-2

testostor 171-2 is a compact, accurate datalogger with an internal probe, parallel dew point measurement and large memory capacity.

testostor 171-2, humidity logger for %RH, °C, td, incl. starting magnet, battery and calibration protocol

Part no.
0577 1712

Internal humidity/temperature sensor with dew point calculation

- Control and adjustment possible using adjustment set
- Sintered cap protection for dusty areas
- On-site application: Testo software for Palm OS® replaces laptop/PC
- Large memory for up to 55,000 readings
- Visual alarm display, battery-operated
- Protection class IP65
- With calibration protocol



Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe, Protection in case of high mechanical load and high velocities	0554 0640

Additional accessories and spare parts	
Display can be attached to datalogger, For quick checks on site	0554 0176
Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe	0554 0660

Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568

Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805

Accessories	Part no.
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246
ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076

Technical data			
Probe type	NTC	Testo humid. sensor, cap.	Calc. parameter
Meas. range	-20 to +70 °C	0 to +100 %RH	-20 to +70 °C td
Accuracy ±1 digit	±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +70 °C)	±2 %RH (+2 to +98 %RH)	
Resolution	0.1 °C (-20 to +70 °C)	0.1 %RH (0 to +100 %RH)	
Oper. temp.	-20 to +70 °C	Protection class	IP65
Storage temp.	-40 to +85 °C	Warranty	2 years
Memory	55000	Measuring cycle: 2s to 24h selectable	
Material/Housing	Aluminium, anodized	Battery life: up to 5 years	
Battery type	Lithium battery (2032)	Software: Menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Dimensions	131 x 68 x 84 mm		
Weight	320 g		

testostor 1722

testostor 1722 is a compact, accurate datalogger with an internal probe, parallel dewpoint measurement, large memory capacity and an alarm output. The signal device which can be connected sends out a signal when the specified limits are exceeded.

testostor 1722, humidity datalogger for %RH, °C, td, incl. alarm output, starting magnet, battery and calibration protocol

Part no.
0577 1722

Internal humidity/temperature sensor with dewpoint calculation and alarm output

- Control and adjustment possible using adjustment set
- Large memory for up to 55,000 readings
- Easy-to-change sensors
- Sintered cap protection for dusty environment
- Visual alarm display, battery-operated



Signal device for testostor 1722 (with connection cable), For reliable signals when programmed limit values are exceeded (optional)

Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Stainless steel sintered cap, Ø 21 mm, can be screwed onto humidity probe, Protection in case of high mechanical load and high velocities	0554 0640
Additional accessories and spare parts	
Signal device for testostor 1722 (with connection cable), For reliable signals when programmed limit values are exceeded	0554 1722
Display can be attached to datalogger, For quick checks on site	0554 0176
Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe	0554 0660

Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569

Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
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Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
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Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805
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Accessories	Part no.
Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246
ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076

Recommended set	
testostor 1722, Standard set with alarm	
<ul style="list-style-type: none"> - testostor 1722, humidity datalogger for %RH, °C, td, incl. alarm output, starting magnet, battery and calibration protocol (Part no. 0577 1722) - Signal device for testostor 1722 (with connection cable) (Part no. 0554 1722) - ComSoft 3 - Professional with data management (Part no. 0554 0830) - Interface, attachable to testostor 171 datalogger (Part no. 0554 1781) - Holder with lock for datalogger (Part no. 0554 1782) - Transport case (plastic) for dataloggers (max. 5 off) and accessories (Part no. 0516 0117) 	

Technical data			
Probe type	NTC	Testo humid. sensor, cap.	Calc. parameter
Meas. range	-20 to +70 °C	0 to +100 %RH	-20 to +70 °C td
Accuracy ±1 digit	±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +70 °C)	±2 %RH (+2 to +98 %RH)	
Resolution	0.1 °C (-20 to +70 °C)	0.1 %RH (0 to +100 %RH)	
Oper. temp.	-20 to +70 °C	Alarm output (relay contact): 1A/42V max. load Measuring rate: 2s to 24h selectable Battery lifetime up to 5 years Software: Menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Storage temp.	-40 to +85 °C		
Memory	55000		
Material/Housing	Aluminium, anodized		
Battery type	Lithium battery (2032)		
Dimensions	131 x 68 x 84 mm		
Weight	320 g		
Protection class	IP65		
Warranty	2 years		

testostor 171-6

The testostor 171-6 datalogger has 2 probe sockets. Example: 2 separate multi-function %RH/°C probes for simultaneous checks on room and ambient humidity.

The Testo humidity sensor is PTB approved and guarantees a constant high measuring accuracy over a wide temperature range. Analysis of the humidity data can be expressed in %RH, dewpoint, g/m³ water level.

testostor 171-6, humidity data logger for %RH, °C, td, incl. starting magnet, battery and calibration protocol

Part no.
0577 1716

2 external humidity/temperature probe sockets or dewpoint calculation

- Wide range of probes
- Probes can be positioned quickly and easily
- Data analysis using Testo printer or PC
- On-site application: Testo software for Palm OS® replaces laptop/PC
- Large memory for 55,000 readings



Humidity/temperature probes	Illustration	Meas. range	Accuracy	t ₉₀	Part no.
Humidity/temperature probe with standard plastic protection cap	 Cable/Length 3 m	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	12 s	0636 9717
Mini humidity/temperature module for measurements at inaccessible points, module cable 1.5m long, probe tip 49x18x7mm	 Cable/Length 1.5 m	0 to +100 %RH -20 to +120 °C	±2 %RH (+2 to +98 %RH) ±0.5 °C (-20 to +120 °C)	20 s	0628 0008

Temperature probes (NTC)	Illustration	Meas. range	Accuracy	Reaction time	Part no.
Robust immersion/air probe, quick-action, 6m cable, IP68 probe tip	 Conn.: Fixed cable 6 m	-50 to +80 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (-50 to -25.1 °C)	5 s t ₉₉ (in water)	0610 1720
Air probe, highly accurate, can be attached directly	 Ø 3 mm	-35 to +70 °C	±0.2 °C (-35 to +70 °C)	180 s t ₉₀	0610 1722
Robust, accurate, waterproof food probe (IP65), made of stainless steel	 Conn.: Fixed cable 2 m	-50 to +120 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (-50 to -25.1 °C) ±0.5 °C (+80.1 to +120 °C)	10 s t ₉₉ (in water)	0610 2217
Frozen food probe, corkscrew design	 Conn.: Plug-in cable 2 m	-50 to +120 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (-50 to -25.1 °C) ±0.5 °C (+80.1 to +120 °C)	8 s t ₉₉ (in water)	0610 3217
Pipe probe with Velcro, measures flow/return temperature, pipe diameter max. 80 mm	 Conn.: Fixed cable 3 m	-50 to +80 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (-50 to -25.1 °C)		0610 4617
Wall surface temperature probe, e.g. provides proof of damage to building material, cable 6.1m long, probe tip 40x15x0.2 mm	 Conn.: Fixed cable 6.1 m	-50 to +120 °C	±0.5 °C (-50 to +120 °C)	20 s t ₉₀	0628 0007

testostor 171-6

Accessories / Technical data

Accessories	Part no.
Transport and Protection	
Transport case (plastic) for dataloggers (max. 5 off) and accessories, For safe transport	0516 0117
Holder with lock for datalogger, Theft-proof	0554 1782
Lock for attached display, Suitable for holder 0554 1782	0554 1789
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe, For measurements at high velocity speeds or in dirt ingressed air	0554 0647
Teflon sintered filter, Ø 12 mm, for corrosive substances, High humidity range (long-term measurements), high velocities	0554 0756
Additional accessories and spare parts	
Display can be attached to datalogger, For quick checks on site	0554 0176
Display with print option, can be attached to datalogger, For quick checks on site	0554 0175
Optical alarm display for datalogger, battery-operated, Warns if limits have been exceeded	0628 0025
Spare battery for testostor 171, Quick and easy battery replacement	0515 0018
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes, Quick checks or calibration of humidity probe	0554 0660

Printer and accessories	
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568

Software and accessories	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
ComSoft 3 - For requirements to CFR 21 Part 11, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0821
Interface, attachable to testostor 171 datalogger	0554 1781
Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit, Facilitates data communication in network	0554 1711
Palm OS® Kit for ComSoft 3*, Software and interface for Palm OS® for easy programming, analysis and saving of logger data. * Palm™ handheld computer and serial data cable are not included.	0554 0805

Calibration certificates	
ISO calibration certificate/Temperature, Temp. datalogger; calibration points - 8°C; 0°C; +40°C	0520 0171
ISO calibration certificate/Humidity, Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0006
ISO cal. cert./Humidity, Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
DKD calibration certificate/Humidity, Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0206
DKD calibration cert./Humidity, Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246

Technical data			
Probe type	NTC	Testo humid. sensor, cap.	Calc. parameter
Meas. range	-50 to +120 °C	0 to +100 %RH	-30 to +50 °C td
Accuracy ±1 digit	±0.4 °C (-10 to +50 °C) ±0.6 °C (-50 to -10.1 °C) ±0.6 °C (+50.1 to +120 °C)	±2 %RH (+2 to +98 %RH)	
Resolution	0.1 °C (-50 to +120 °C)	0.1 %RH (0 to +100 %RH)	
Oper. temp.	-20 to +70 °C	Dimensions	131 x 68 x 26 mm
Storage temp.	-40 to +85 °C	Warranty	2 years
Battery type	Lithium battery (2032)	Meas. cycle: 2s to 24h freely selectable	
Protection class	IP65	Software: menu-driven from Microsoft Windows 95 / NT 4 Service pack 4	
Memory	55000	Battery life: 5 years	
Weight	305 g		

Testo printer

Versatile infrared printer for testostor 171

The universal printer with IRDA and infrared interface saves you time since it saves the print data prior to printing. Data transfer is completed within 2 seconds. The instrument is then immediately ready for operation.

The readings are saved black on white with date and time.



Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries

Part no.

0554 0547

Technical data

Printer type	Infrared-controlled thermal printer, adjustable contrast, prints graphics
Reception radius	Max. 2 m
Dimensions	147 x 77 x 47 mm

Oper. temp.	0 to +50 °C
Storage temp.	-40 to +60 °C
Power supply	4 round cell batteries, 1.5 V or rechargeable batteries
Weight	430 g

Accessories

Part no.

Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Recharger for printer (with 4 standard rech. batteries), Rechargeable batteries are recharged externally	0554 0110

testo 575

Fast-action printer and logger control in one for testo 175/177

testo 575 is the practical fast-action printer for all testo 175 and 177 dataloggers. It can be set to your language. In addition to being a practical printer, testo 575 can also be used as a logger control unit.

Print functions

- Fast-action print mechanism, 6 lines/s
- Prints tables/graphics
- Brief info. or full memory can be printed as required
- Determine section to be printed
- Your language can be set
- Self-adhesive Testo paper can also be used

Control functions

- Stops testo 175/177 loggers
- Reboots logger with saved parameters (reprogramming)
- Both buttons can be blocked by PC software



Fast testo 575 printer, incl. 1 roll of thermal paper and batteries

Part no.

0554 1775

Technical data

Printer:	Infrared thermal line printer with graphics function
Contrast:	Can be adjusted
Paper width:	56 mm
Roll diameter:	Up to 35 mm
Paper:	Standard paper and two-layer adhesive
Number of characters per line:	24
Graphics resolution:	203 dpi
Operating temp.:	-5 to +50°C (for 5 min at -30°C)

Storage temperature:	-30 to +70°C
Power:	6x round cell 1AA
Battery life:	Up to 40,000 print lines
Battery change:	By user
Housing:	ABS (black), with "Soft-Protect" inserts

Accessories

Part no.

Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), Measurement data documentation legible for up to 10 years	0554 0568
Label thermal paper (Testo patent) for testo 575 printer (6 rolls), can be applied directly	0554 0561

testo 580

Compact data collector for testo 175/177 for on-site readout

The testo 580 data collector collects data on site for upload to PC and analysis

- Can read out up to 25 full testo 175 loggers or 10 full testo 177 loggers
- Displays all status information
- Download collected data to PC using Testo ComSoft 3



testo 580 data collector including readout holders, For testo 175/177 dataloggers

Part no.
0554 1778

Control functions

- Stops logger
- Reboots logger
- Both control functions can be blocked via PC

Technical data

Memory capacity: 1 MB (approx. 500,000 values)
Read out time in logger: Approx. 400 readings/s
Read out time in PC: Approx. 1,500 readings/s
Logger interface: Infrared transfer, bidirectional
PC interface: RS 232 (Sub_D socket)
Operating temperature: -30 to +70°C
Storage temperature: -40 to +85°C
On/Off switch: Off: AutoOFF to 1 min

Functions

Display: Logger memory used, testo 580 memory used, Logger battery life, testo 580 battery life, Data transfer in progress, Data transfer ok or defective, Wraparound display

Other: Data secure even if battery is spent

Power: 3x micro AAA cells

Housing: ABS (black)

testo 581

Alarm limit signal output for testo 175/177 to forward alarm messages

The alarm signal output testo 581 makes it possible to send alarm messages to external components, e.g.: horns, lamps, PLC.

The external components are connected via a terminal strip in the battery compartment of the testo 581, the signal is transferred via the floating signal output. This can be set as an NC or NO contact.

Alarm is triggered when:

- Programmed limit values in the datalogger are exceeded
- Logger is stopped due to spent battery
- Probe is disconnected
- Alarm unit battery is spent

The control functions

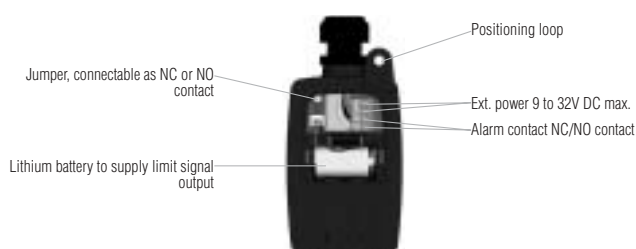
You will be informed directly at the touch of a button, if the alarm has already been triggered. The alarm of the external components, e.g. the horn, can be reset using the reset button.



testo 581 alarm signal output, floating, for testo 175/177

Part no.
0554 1769

Connection assignment (back of limit signal output)



testo 581 can be used together with all testo 175/177 dataloggers. Once connected to the datalogger wall holder, communication between testo 175/177 and the limit signal output takes place via the infrared interface.

Technical data

Signal	Floating signal output, can be set as NC or NO contact
No./switch. chann.	1 channel
Power limit signal output	Battery (Included) or 9 to 32V DC max. (external)
Max. switching voltage	60V DC/25V AC (SELV/PELV switch circuits)
Max. duration switch-off current	1A DC/AC
Max. switch power	30W/30VA
Conn.	Via terminal strip in battery compartment (output and power)
Oper. temp.	-40 to +70 °C
Storage temp.	-40 to +85 °C
Battery type	Lithium (1/2 AA)
Battery life	Approx. 5 years
Material/Housing	Polycarbonate (black)
Dimensions	82 x 52 x 30 mm
Protection class	IP68

ComSoft 3 - Basic

The Basic version has all the functions needed to monitor, analyse, save and print data. The dataloggers are programmed and read out using the instrument drivers available. The limit values to be monitored can be defined as required; short titles, text fields and channel names ensure clear allocation if several loggers are in use.

Once read out, the data can be shown in table or line graphics and then analysed.

The e-mail address can be entered when programming so that data can be easily forwarded through your locally installed e-mail program by simply clicking on “Send...”. The saved e-mail address is then entered in the address box.

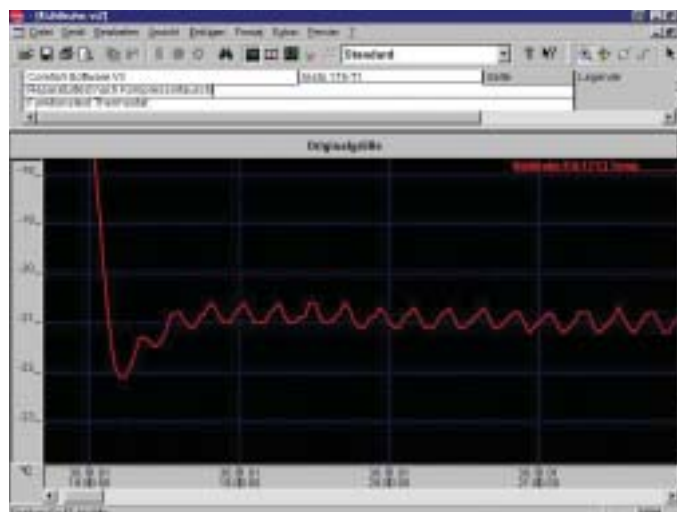
Easy operation, convenient analysis

Additional functions:

- Axes can be scaled as required
- Frequently used scales can be saved for future use
- Min/Max and mean calculation in tables
- Printout as table or graphic on all printers compatible with Windows
- Data export to other applications via clipboard
- Automatic search for instrument driver during initial operation (Autodetect)
- Crosshair function, fast scanning in graphics with direct value display



Programming the logger



Analysing measurement data

[illegible][Table view/Documentation](#)

Accessories	Part no.
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Interface, attachable to testostor 171 datalogger	0554 1781

testo 175

ComSoft 3 Set - Basic with RS 232 interface

Basic software with diagram and table function, incl. desk-top holder, PC connection cable

Part no.
0554 1759

testo 177

ComSoft 3 Set - Basic with RS 232 interface

Basic software with diagram and table function, incl. desk-top holder, PC connection cable

Part no.
0554 1774

testo 175

ComSoft 3 - Basic Set with USB interface for testo 175

Basic software with diagram and table function, incl. desk-top holders, PC connection cable

Part no.
0554 1766

testo 177

ComSoft 3 - Basic Set with USB interface for testo 177

Basic software with diagram and table function, incl. desk-top holders, PC connection cable

Part no.
0554 1767

ComSoft 3 - Professional

In addition to all the functions of the Basic version, the Professional also has extra display options (e.g. digit box, bar chart, analog instrument, xy plot) and **convenient data filing**. Measurement data can be stored in their own folders so that, for example, several dataloggers from different locations can be organised in a tree structure. It is particularly recommended for instruments, which can manage many measurement logs e.g. the testo 580 data collector. The driver in this instrument is set up such that the directory structure of the Professional software is supported. The result is clear and comprehensible data handling.

ComSoft 3 - Professional with data management

Incl. database, analysis and graphics function, data analysis, trend curve (without interface)

Part no.

0554 0830

Professional Software including Data Filing

Additional functions:

- Adapt menus and range of functions
- Select different print heads when printing tables and graphics
- Extended display options such as digit box, bar chart, analog instrument and xy plot
- Input of mathematical functions with calculation on a new measurement channel
- Compensation functions 0 (mean) to 7th degree
- Developer ToolBox with functions for integrating the instrument driver in non-Testo software



Structured filing of measured data and parameters in folders, locations, logs and channels

Comsoft 3 -Professional for:

- Dataloggers from the testo 175, testo 177 and testostor 171 series
- testo 945, testo 645, testo 445 and testo 545 monitoring instruments
- testo 950, testo 650, testo 400 (as version also for testo 454 and testo 350) reference measuring instruments

Accessories

Accessories	Part no.
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
USB interface, for testo 175/177 incl. desk-top holders, PC conn. cable, (Please order with ComSoft 3 - Professional)	0554 1768
Interface, attachable to testostor 171 datalogger	0554 1781

CFR 21 Part 11

A validation-compatible ComSoft 3.3 Version 21 CFR 11 has been developed especially for the management and filing of process data. All FDA requirements can be fulfilled if used as part of a cohesive system:

ComSoft 3 - For requirements to CFR 21 Part 11

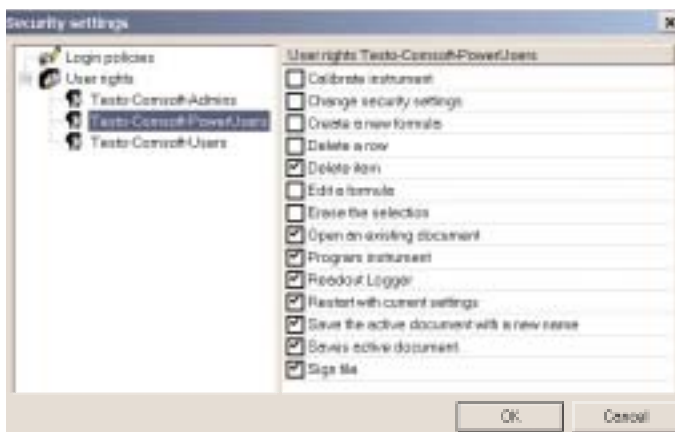
Incl. database, analysis and graphics function, data analysis, trend curve (without interface)

Part no.

0554 0821

Software for requirements in accordance with CFR 21 Part 11

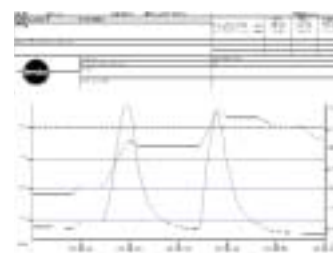
- Identification of damaged or modified raw data
- Recognition of transfer errors using proof totals
- Inactivity lockout to prevent unauthorised access
- Monitors logins and logouts, successful/failed use of digital signatures and modification of raw data with the aid of Audit Trail
- Complete integration in the Windows 2000 security system (certificates, rights management, user and password management, user authentication)
- Option of data export in generally readable PDF file format e.g. to send to the FDA validation point responsible or to display during a company audit.



User management in groups



Display: Limit value violation in table format



Graphic display of readings



- User management in User Groups by Administrator (using Windows 2000 Rights management and three additional ComSoft-specific user groups)
- Save raw data in tamper-proof file format

Ethernet adapter

The new Ethernet adapter enables the following:

- Onsite measurements e.g. in production storage halls, Incoming Goods
- Measuring instrument remains on site, transport not necessary
- Data inspection from office or administration
- Centralised filing of measurement data

Ethernet offers:

- Fast transmission of readings
- Use of an existing network without additional cabling
- Long transmission distances
- Identification of measuring instruments in a system network

Ethernet adapter, RS 232 - Ethernet incl. software driver, mains unit
Facilitates data communication in network (not for use in Ex-zone)

Part no.

0554 1711

With Testo measuring instruments in Ethernet

Long-term monitoring of ambient data

The parameters, temperature and humidity, are measured and saved on site by the datalogger. Using the Ethernet adapter, measurement data stored in the logger can be read out and filed via the PC network. The measurement data is then easily analysed and checked on your PC in the office.

The Ethernet adapter therefore has the following advantages:

- Affordable handling since it is not necessary to read the data on site or take the logger to the office
- Fast access times because current measurement data can be accessed at any time.



Multi-point checks on site

Testo's handheld measuring instruments are used in production or in Incoming Goods to take spot checks on site. Using an Ethernet adapter, measurement data can be transmitted immediately to a central office which facilitates fast reaction times if further actions are required.

Accessories	Part no.
System accessories: testo 175, testo 177	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
RS 232 interface for testo 175/177 incl. desk-top holders, PC connection cable, (please also order for ComSoft 3 - Professional)	0554 1757
System accessories: testostor 171	
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
Interface, attachable to testostor 171 datalogger	0554 1781

Technical data		Management and software configuration	Internet Browser e.g. from Netscape or Microsoft Telnet
Dimensions	45 x 48 x 14 mm		
Oper. temp.	+0 to +70 °C	Interface	Serial interface on computer board with terminal program Provision of a local virtual COM port (Windows systems)
Software	Microsoft Windows 2000 / NT 4.0 / ME / 98 / 95		
Power supply	Mains unit, 5 Volt approx. 230 mA		
Humidity class	F to DIN 40040		
EMC	Radio interference and interference resistance		
Interface	25 pin RS 232 connection with adapter 25/9pin		
Logs	TCP/IP, LPR, Telnet, SNMP, DHCP DDNS, ARP, BOOTP, ICMP		

Palm OS® Kit for ComSoft 3

Programming and Management

The testostor 171 dataloggers for temperature and humidity can be programmed on site using the new Palm OS® Kit and a Palm™ handheld computer. In this way, it is possible to set the measurement intervals quickly and directly. Measurement programs can be started or stopped and the logger operation mode can be easily checked.

Analysis and Comment

The data saved in the logger can be read out at the touch of a button. It is organised in the data folder of the Palm™ handheld according to site and date. The data is shown in table or graph form and a zoom function is available. In this way, information pertaining to the measurement, target values or comments on the measurement can be added.

Data transmission and filing

Measurement data can be printed on site via infrared on the fast-action testo 575 printer. Data is transferred to the PC via the HotSync® function. The ComSoft 3 Professional software has a wide range of options for data analysis and filing e.g. data export to Microsoft® Excel.

Program and read out testostor 171 loggers with the Palm® Handheld Computer

- Fast, Flexible Data Management On Site for testostor 171
- Program and read out the testostor 171 logger with your Palm® handheld computer
- Programming and Management
- Analysis and Comment
- Data transmission and filing



System requirements for Palm Interface

Instrument:	Palm™ handheld computer (not included)
Operating system:	Palm OS® from version 3.5
Memory size:	4 MB, recommended: 8 MB to save up to 10x logger data
Connection cable:	Palm™ serial HotSync® cable (not included)

System requirements for ComSoft Professional

Operating system:	Microsoft Windows from 95 / NT4 SP4
PC:	Min. Pentium 100 MHz
Hard-disk storage:	15 MB free
Interface:	Serial (COM Port)
For installation:	CD Rom / DVD drive
Testo ComSoft Professional:	From version 3.1 SP2

Set	Part no.
Palm OS® Kit for ComSoft 3 * Software and interface for Palm OS® for easy programming, analysis and saving of logger data.	0554 0805
Palm OS® Starter Kit/Temperature * testostor 171-0 temperature logger + starting magnet + battery + interface + ComSoft 3 Professional software + Palm OS® Kit.	0563 0171
Palm OS® Starter Kit/Humidity * testostor 171-3 humidity and temperature logger + starting magnet + battery + interface + ComSoft 3 Professional software + Palm OS® Kit.	0563 3171

* Palm™ handheld computer and serial data cable are not included.

Accessories	Part no.
ComSoft 3 - Professional with data management, Incl. database, analysis and graphics function, data analysis, trend curve (without interface)	0554 0830
Fast testo 575 printer, incl. 1 roll of thermal paper and batteries, Infrared thermal line printer with graphics function	0554 1775

testo 454

Modular measurement system with up to 20 loggers

The modular logger system: testo 454
Now you can measure many different parameters in one or many locations simultaneously using one portable system.

testo 454 is both a compact, portable measuring instrument and can be upgraded to a modular measuring system with more than 200 measurement channels.

Control unit

The control unit is a robust hand-held instrument for measuring temperature, humidity, pressure, flow, CO₂, rpm, current and voltage. Reliable measurements are guaranteed with our easy-to-read graphics display which allows tracking of 6 parameters, simple menu driven operation and 4 user defined function buttons. Touch pen operation is available as an option.

Attachable loggers

4 additional, user defined probe sockets can be added to the control unit with each attachable logger. Giving you the proper number of probes for your application. Up to 20 loggers can be attached. Simultaneous measurement of data at several locations is carried out by "slave" loggers. Measured data is transmitted via the Testo data bus. The control unit is able to control the entire measuring system.

Data output

Measured data is printed on site on the built-in printer. The measured data is analysed, documented and stored on your PC. Readings are output as a current signal (4-20 mA) through the analog output box for process control or output on an analog recorder.

Control unit testo 454

Built-in printer prints readings on site

4 user-defined function buttons

Data communication with PC

Testo data bus

User-defined probe socket

Built-in differential pressure probe (80/200hPa)

Datalogger testo 454

Can take up to 20 loggers

Mains connection / Quick battery recharge

4 user-defined probe sockets

Control unit testo 454

Control unit displays measurement data and controls the measuring system, incl. built-in printer, pressure measurement 80/200 hPa, 1 user defined probe socket, programmable measurements and memory space for 250,000 readings, connection for Testo data bus, incl. terminal plug

Part no.

0563 0353

Datalogger testo 454

Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder

Part no.

0577 4540

Recommended set

Data logging at several sites

- Control unit displays measurement data and controls the measuring system, incl. built-in printer, pressure measurement 80/200 hPa, 1 user defined probe socket, programmable measurements and memory space for 250,000 readings, connection for Testo data bus, incl. terminal plug (Part no. 0563 0353)
- Touch screen with pen (available only with original order) (Part no. 0440 0559)
- Testo rechargeable battery pack NiMH for control unit, logger (Part no. 0515 0097)
- Connection cable, 2 m, for Testo data bus (Part no. 0449 0042)
- Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder (Part no. 0577 4540)
- Connection cable, 5 m, for Testo data bus (Part no. 0449 0043)
- Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder (Part no. 0577 4540)
- Power box, connected to control unit to increase field operating life and supply power to Testo data bus (Part no. 0554 1045)
- Power unit for compact gas drier and flue gas analyser (Part no. 0554 1143)
- ComSoft 3 for data management, incl. RS 232 connection cable (Part no. 0554 0841)

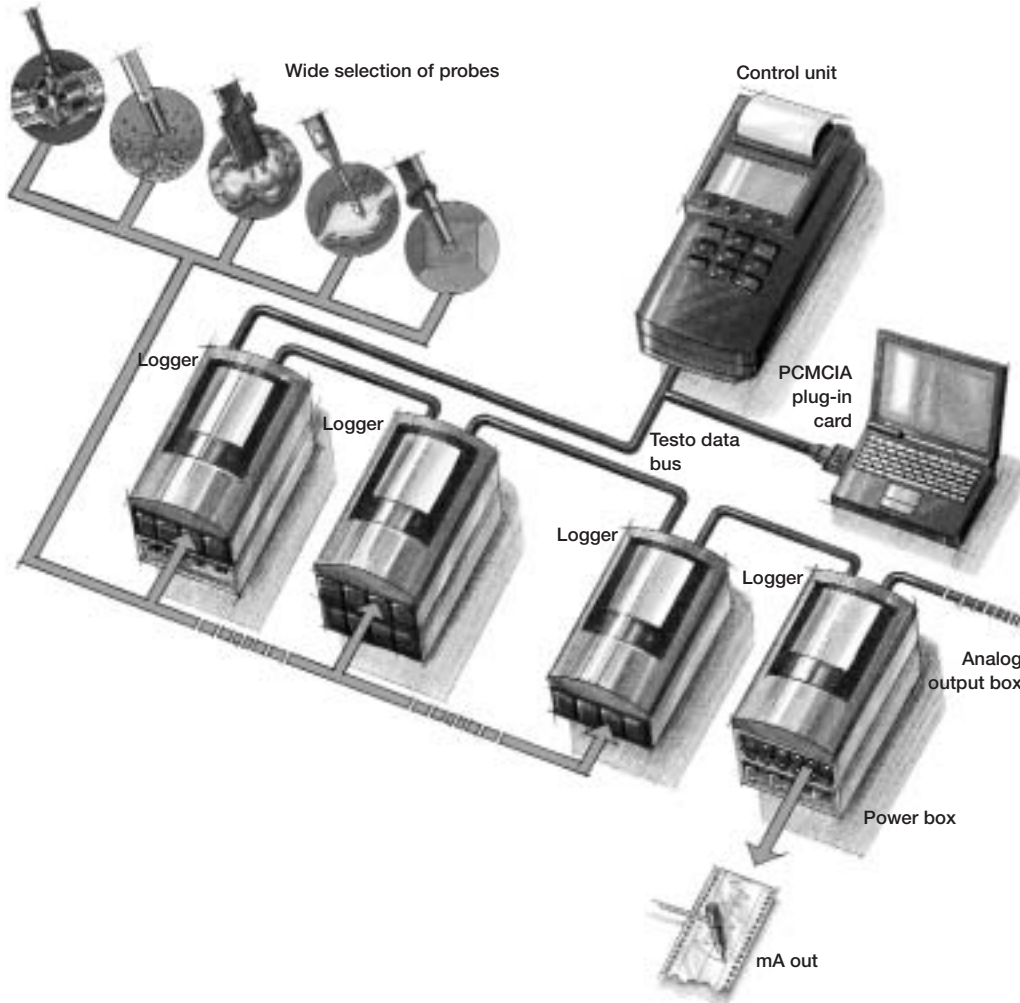
Recommended set

Data measurement at several sites using laptop/PC

- Testo PCMCIA plug-in card incl. ComSoft 3 software, cable for Testo data bus, adapter and terminal plug (Part no. 0554 0590)
- Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder (Part no. 0577 4540)
- Power unit 230 V/ 8 V/ 1 A, for instrument (European plug) (Part no. 0554 1084)
- Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder (Part no. 0577 4540)
- Power unit 230 V/ 8 V/ 1 A, for instrument (European plug) (Part no. 0554 1084)
- Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder (Part no. 0577 4540)
- Power unit 230 V/ 8 V/ 1 A, for instrument (European plug) (Part no. 0554 1084)
- Connection cable, 2 m, for Testo data bus (Part no. 0449 0042)
- Connection cable, 5 m, for Testo data bus (Part no. 0449 0043)
- Connection cable, 20 m, for Testo data bus (Part no. 0449 0044)
- Power box, connected to control unit to increase field operating life and supply power to Testo data bus (Part no. 0554 1045)
- Power unit for compact gas drier and flue gas analyser (Part no. 0554 1143)

testo 454

System overview



Control unit

The control unit is a portable and robust measuring instrument with a user defined probe socket and built-in differential pressure probe. Convenient measuring functions such as timed/multi-point mean calculations and measurement programs simplify the measuring task. You can save up to 250,000 readings directly in the selected locations and then print them on location on the built-in printer.

The control unit displays the measurement data and controls the **testo 454** measuring system. The following parameters are saved in the control unit:

- Locations
- Measurement programs
- Limits
- Precision adjustment
- System configuration.

Efficient operation of the measuring system is guaranteed by the probe dependent menu guide, for example, or the clear display of readings with names. The control unit is connected via the serial interface in the laptop/PC.

Additionally the control unit has all options for mobile use of a hand-held instrument.

The "slave" loggers can be read out and controlled, without a control unit, via a PC plug-in card (PCMCIA) for laptop/PC. It is possible to display the readings from several loggers clearly and conveniently in one view during online measurement. The data and readings relevant to the system are saved in the laptop/PC and loggers.

Communication between control unit/logger, PC plug-in card/logger and other boxes takes place via the Testo data bus. Using the Testo data bus, you have the option of operating loggers at different locations. Distances of up to several hundred metres pose no problem for the Testo data bus.

The logger readings are output as a current signal (4-20 mA signal) for display units or output on an analog recorder.

The power box is used to supply power to the loggers, control unit, analog output box and the Testo data bus thus increasing the operating life in the field.

Loggers

4 additional probe sockets are added with each clip-on logger attached to the control unit. Each logger provides 250,000 additional readings via the memory built-in in the logger. Up to 20 loggers can be connected to the control unit yielding over 5 million readings!

The datalogger measures and saves readings without any connection to the control unit. Up to 4 more of any of the ambient air probes can be connected to this logger. Additional probe connection options are made possible by connecting more loggers. The following features give you flexibility when measuring data:

- Variable program start
- Adjustable measuring cycle
- Number of readings
- Program cancel can be defined

Defining measurement programs

Complex measurement tasks require structure. ComSoft software offers a wide range of possibilities for program start, measuring cycle and program finish. In this way, measurement programs can be started at a specified time, manually, by exceeding a value or via an external trigger signal. An easy-to-use user guide guarantees reliable logger operation.

Online measurement

In addition to displaying readings in diagrams, tables and histograms, display on a system graphic (e.g. flow diagram or system photo), produced by the user, is also an option for online measurement.

Data analysis

Data analysis is carried out using a wide range of display types and calculations such as mathematical smoothing, statistical functions, limit display.

Documentation

Protocols for applications can be put together as required. Only important values should be documented.

Filing

The tree structure and directory and location set up process enable easy data management.

Technical data					
Probe type	Vane	Thermal	Testo humid. sensor, cap.	Pressure	
Meas. range	0 to +60 m/s	0 to +20 m/s	0 to +100 %RH	10 to 30000 hPa	
Accuracy ±1 digit	See probe data for system accuracy	±0.01 m/s (0 to +1.99 m/s) ±0.02 m/s (+2 to +4.99 m/s) ±0.04 m/s (+5 to +20 m/s)	See probe data	Probe 0638 1345 Probe 0638 1445 Probe 0638 1545 Probe 0638 1645 ±0.1% of mv Probe 0638 1740 Probe 0638 1840 Probe 0638 1940 ±0.2% of mv	
Resolution	0.01 m/s (for Ø 60/100 mm), 0.1 m/s (for rem. probes)	0.01 m/s (0 to +20 m/s)	0.1 %RH (0 to +100 %RH)	0.001 hPa (Probe 0638 1345) 0.001 hPa (Probe 0638 1445) 0.01 hPa (Probe 0638 1545) 1 hPa (Probe 0638 1645) 0.01 bar (Probe 0638 1740) 0.01 bar (Probe 0638 1840) 0.01 bar (Probe 0638 1940)	

Probe type	Pt100	Type K (NiCr-Ni)	Type S (Pt10Rh-Pt)	Type J (Fe-CuNi)	Type T (Cu-CuNi)
Meas. range	-200 to +800 °C	-200 to +1370 °C	0 to +1760 °C	-200 to +1000 °C	-40 to +350 °C
Accuracy ±1 digit	±0.1 °C (-49.9 to +99.9 °C) ±0.4 °C (-99.9 to -50 °C) ±0.4 °C (+100 to +199.9 °C) ±1 °C (-200 to -100 °C) ±1 °C (+200 to +800 °C)	±0.4 °C (-100 to +200 °C) ±1 °C (-200 to -100.1 °C) ±1 °C (+200.1 to +1370 °C)	±1 °C (0 to +1760 °C)	±0.4 °C (-150 to +150 °C) ±1 °C (-200 to -150.1 °C) ±1 °C (+150.1 to +199.9 °C)	±0.4 °C (-40 to +200 °C) ±1 °C (+200.1 to +350 °C)
Resolution	0.01 °C (-99.9 to +300 °C) 0.1 °C (-200 to -100 °C) 0.1 °C (+301 to +800 °C)	0.1 °C (-200 to +1370 °C)	1 °C (0 to +1760 °C)	0.1 °C (-200 to +1000 °C)	0.1 °C (-40 to +350 °C)

Probe type	NTC	CO probe	CO2 probe	CO2 probe	
Meas. range	-40 to +150 °C	0 to +500 ppm CO	0 to +1 Vol. % CO ₂	0 to +10000 ppm CO ₂	
Accuracy ±1 digit	±0.2 °C (-10 to +50 °C) ±0.4 °C (-40 to -11 °C) ±0.4 °C (+51 to +150 °C)	±5% of mv (0 to +500 ppm CO)	See probe data	See probe data	
Resolution	0.1 °C (-40 to +150 °C)				

Probe type	Mechanical	Current/voltage measurement	Current/voltage measurement	Control unit, integ. press. sensor	Control unit, integ. press. sensor
Meas. range	+20 to +20000 rpm	0 to +20 mA	0 to +10 V	-200 to +200 hPa	-40 to +40 hPa
Accuracy ±1 digit	(+20 to +20000 rpm)	±0.04 mA (0 to +20 mA)	±0.01 V (0 to +10 V)	±1.5% of mv (-50 to -200 hPa) ±1.5% of mv (+50 to +200 hPa) ±0.5 hPa (-49.9 to +49.9 hPa)	±1.5% of mv (-3 to -40 hPa) ±1.5% of mv (+3 to +40 hPa) ±0.03 hPa (-2.99 to +2.99 hPa)
Resolution	1 rpm (+20 to +20000 rpm)	0.01 mA (0 to +20 mA)	0.01 V (0 to +10 V)	0.1 hPa (-200 to +200 hPa)	0.01 hPa (-40 to +40 hPa)

	testo 454, control unit	Logger, measures and saves readings	Analog output box (mA out)	Power box	
Oper. temp.	-5 to +45 °C	-10 to +50 °C	-10 to +50 °C	0 to +40 °C	
Storage temp.	-20 to +50 °C	-25 to +60 °C	-25 to +60 °C	-20 to +50 °C	
Battery type	4 AA batteries	Alkali manganese			
Battery life	8 h *1	24 h *2		35 h *2	
Memory	250000	250000			
Weight	850 g	450 g	305 g	700 g	
Dimensions	252 x 115 x 58 mm	200 x 89 x 37 mm	200 x 89 x 37 mm	200 x 89 x 37 mm	
Warranty	2 years	3 years	3 years	3 years	

*1 Battery life in continuous operation with 1 T/C probe

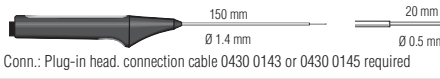

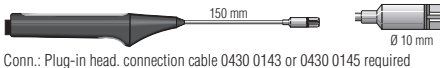
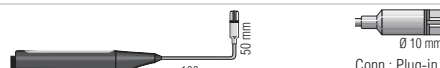
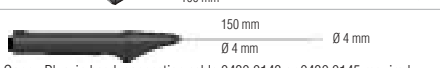
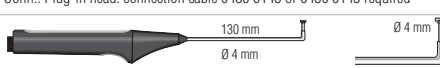








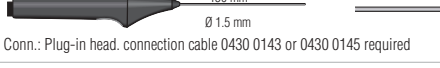
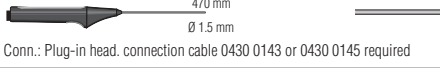
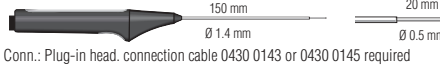
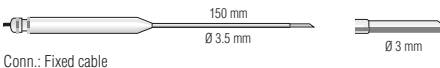

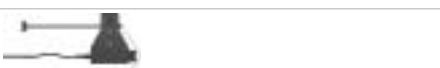
*2 Battery life in continuous operation with a logger/4 T/C probes

testo 454

Accessories

Ordering data: Measurement system/Accessories	Part no.
Control Unit + Logger	
Control unit displays measurement data and controls the measuring system, incl. built-in printer, pressure measurement 80/200 hPa, 1 user defined probe socket, programmable measurements and memory space for 250,000 readings, connection for Testo data bus, incl. terminal plug	0563 0353
Touch screen with pen (available only with original order) For easy input of text and values	0440 0559
Logger, measures and saves (max. 250,000 readings), incl. 4 user defined probe sockets, alarm output/event trigger socket, stand/wall holder	0577 4540
Alarm/trigger cable	0554 0012
Recharger for control unit or logger (with 4 standard rechargeable batteries) Rechargeable batteries are recharged externally	0554 0110
Testo rechargeable battery pack NiMH for control unit, logger	0515 0097
Power unit 230 V, for control unit, logger and analog output box For mains operation and recharging Testo rech. batt. packs in instr.	0554 1084
Analog output box + Power box	
Analog output box, 6 channels, 4 to 20 mA For output on an analog recorder or process control	0554 0845
Power unit 230 V, for control unit, logger and analog output box	0554 1084
Power box, connected to control unit to increase field operating life and supply power to Testo data bus	0554 1045
Mains unit for power box (110/230 V; 50/60 Hz, 12 V, 3 A)	0554 1143
testo data bus	
Connection cable, 2 m, for Testo data bus	0449 0042
Connection cable, 5 m, for Testo data bus	0449 0043
Connection cable, 20 m, for Testo data bus	0449 0044
Mains unit (110/230 V; 50/60 Hz, 12 V, 3 A) supplies power to Testo data bus	0554 1145
Terminal plug for Testo data bus	0554 0119
Software and Accessories	
ComSoft 3 for data management, incl. RS 232 connection cable Incl. database, analysis and graphics function, data analysis, trend curve	0554 0841
Testo PCMCIA plug-in card incl. ComSoft 3 software, cable for Testo data bus, adapter and terminal plug	0554 0590
Electrical isolation for RS232 (connects measuring instrument to PC)	0554 0006
Accessories	
Barcode reader to read in measurement locations Quick and accurate allocation of reading to site	0554 0460
Barcode labels, self-adhesive (1200 off) for labelling site with barcode, printing via software	0554 0411
Adhesive pockets (50 off) for printout, paper barcode labels...	0554 0116
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10 years	0554 0568
Holding unit/Theft-proof with lock for logger wall holder	0554 1782
Connection hose, silicone, 5m long Max. load 700 hPa (mbar)	0554 0440
System case	
System case (aluminium) for measuring instrument, probes and accessories Probes in lid make it easy to find parts in case	0516 0410
Large system case (aluminium) for control unit, up to 6 loggers, probes and accessories 1 section for velocity probes, ample space in lid for probes and large section in base for accessories	0516 0420

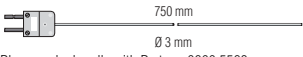
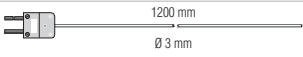
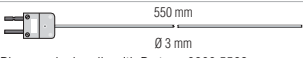

Calibration Certificates	Part no.
Calibration certificates/Temperature	
ISO calibration certificate/Temperature Temp. datalogger; calibration points -18°C; 0°C; +60°C	0520 0151
ISO calibration certificate/Temperature Meas. instr. with air/immersion probe; cal. points 0°C; +150°C; +300°C	0520 0021
ISO calibration certificate/Temperature Thermometers with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071
DKD calibration certificate/Temperature Temp. datalogger; cal. points -20°C; 0°C; +60°C	0520 0261
DKD calibration certificate/Temperature Contact surface temperature probes; calibration points +100°C; +200°C; +300°C	0520 0271
Calibration certificates/Humidity	
ISO calibration certificate/Humidity Data loggers; calibration points freely selectable from 5 to 95%RH at +15 to +35°C or -18 to +80°C +15 to +35°C (max DP +70°C/min DP -30°C) -18 to +80°C	0520 0066
ISO cal. cert./Humidity Humidity datalogger; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0076
ISO calibration certificate/Pressure dew point Two adjustment points -10/-40 °C tpd	0520 0136
ISO calibration certificate/Humidity Saturated saline solutions; calibration point 11.3%RH	0520 0013
ISO calibration certificate/Humidity Saturated saline solutions, calibration point 75.3%RH	0520 0083
DKD calibration cert./Humidity Humidity datalogger; cal. points 11.3%RH and 75.3%RH at +25°C	0520 0246
DKD calibration certificate/Humidity Cal. points freely selectable from 5 to 95%RH at +25°C or +5 to +70°C +25°C -18 to +70°C	0520 0236
DKD calibration certificate/Humidity Saturated saline solutions; calibration point 11.3%RH	0520 0213
DKD calibration certificate/Humidity Saturated saline solutions; calibration point 75.3%RH	0520 0283
Calibration certificates/Pressure	
ISO calibration certificate/Pressure Differential pressure; 5 points distributed over meas. range	0520 0005
DKD calibration certificate/Pressure Diff. and pos. pressure; 6 meas. points distributed over meas. range (>0.6% of fsv)	0520 0225
ISO calibration certificate/Pressure Differential pressure, accuracy 0.1 to 0.6 (% of fsv)	0520 0025
DKD calibration certificate/Pressure Differential and positive pressure; 11 measuring points distributed over the instrument measuring range	0520 0215
ISO calibration certificate/Pressure Absolute pressure, accuracy 0.1 to 0.6 (% of full-scale value)	0520 0125
DKD calibration certificate/Pressure Absolute pressure; 11 measuring points distributed over meas. range	0520 0212
Calibration certificates/Velocity	
ISO calibration certificate/Velocity All velocity probes, calibration points selectable from 0.3 to 50 m/s at +25°C	0520 0104
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 1; 2; 5; 10 m/s	0520 0004
ISO calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 5; 10; 15; 20 m/s	0520 0034
ISO calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 0.8; 1; 1.5 m/s	0520 0024
DKD calibration certificate/Velocity Hot wire, vane anemometer; calibration points 0.5; 1; 2; 5; 10 m/s	0520 0244
DKD calibration certificate/Velocity Hot wire, vane anemometer, Pitot tube; calibration points 2; 5; 10; 15; 20 m/s	0520 0204
DKD calibration certificate/Velocity Hot wire anemometer; calibration points 0.1; 0.2; 0.5; 0.8; 1 m/s	0520 0224




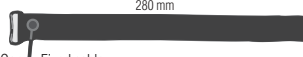





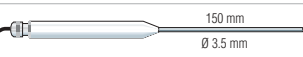
Probes Type K (NiCr-Ni)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Super quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip		-200 to +600 °C	Class 1	1 s	0604 9794 0614 9794
Thermocouple, made of fibre-glass insulated thermal pipes, pack of 5		-200 to +400 °C Insulation: twin conductor, flat, oval, opposed and covered with fibre-glass, both conductors are wrapped together with fibre-glass and soaked with lacquer, please order adapter 0600 1693	Class 1	5 s	0644 1109
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500 °C		-200 to +300 °C	Class 2	3 s	0604 0194 0614 0194
Super quick-action surface probe, probe tip at 90° angle, with sprung thermocouple strip		-200 to +300 °C	Class 2	3 s	0604 0994
Robust surface probe		-200 to +600 °C	Class 1	25 s	0604 9993 0614 9993
Robust surface probe, at 90° angle, suitable for inaccessible places		-200 to +600 °C	Class 1	25 s	0604 9893 0614 9893
Robust surface probe with sprung thermocouple strip for high temperature range up to +700 °C		-200 to +700 °C	Class 2	3 s	0600 0394
Roller surface probe for measurements on rollers and rotating drums, max. circumferential velocity 18 to 400 m/min		-50 to +240 °C	Class 2		0600 5093
Magnetic probe, adhesive power approx. 20 N, with magnets, for measurements on metal surfaces		-50 to +170 °C	Class 2		0600 4793
Magnetic probe, adhesive power approx. 10 N, with magnets, for higher temperatures, measures on metal surfaces		-50 to +400 °C	Class 2		0600 4893
Miniature surface probe for measurements on electronic components, small motors...		-200 to +400 °C	Class 2	3 s	0600 1494
Adhesive thermocouple, pack of 2, carrier material: aluminium foil Please order adapter 0600 1693. Is fixed at the measuring point using conventional adhesives or silicone heat paste 0554 0004		-200 to +200 °C	Class 1		0644 1607
Fast response immersion/penetration probe		-200 to +400 °C	Class 1	3 s	0604 0293 0614 0293
Super quick-action immersion/penetration probe for measurements in liquids		-200 to +600 °C	Class 1	1 s	0604 0493 0614 0493
Super quick-action immersion/penetration probe for high temperatures		-200 to +1100 °C	Class 1	1 s	0604 0593 0614 0593
Super quick-action immersion/penetration probe for measurements in gases and liquids with a low-mass tip		-200 to +600 °C	Class 1	1 s	0604 9794 0614 9794
Robust immersion/penetration probe made of V4A stainless steel, waterproof and oven-proof, e.g. for the food sector		-200 to +400 °C	Class 1	3 s	0600 2593
Smelting probe for measurements in non-ferrous melting baths, with exchangeable measuring tips		-200 to +1250 °C	Class 1	60 s	0600 5993
Pipe clamp probe for pipes up to 2" in diameter		-60 to +130 °C	Class 2	5 s	0600 4593
Spare meas. head for pipe wrap probe		-60 to +130 °C	Class 2	5 s	0602 0092

*with EEPROM: Precision adjustment for each probe at a measuring point; measuring range limits are saved in probe; t₉₅ extrapolation; surface allowance in surface probe can be adapted to measuring task



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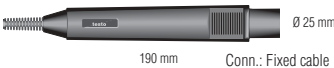


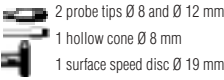

Suitable probes at a glance

Probes Type K (NiCr-Ni)	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Plug-in measuring tip, 750mm long, flexible, for high temperatures, outer casing: stainless steel 1.4541	 750 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +900 °C	Class 1	4 s	0600 5393
Plug-in measuring tip, 1200 mm long, flexible, for high temperatures, outer casing: stainless steel 1.4541	 1200 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +900 °C	Class 1	4 s	0600 5493
Plug-in measuring tip, 550mm long, flexible, for high temperatures, outer casing: Inconel 2.4816	 550 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +1100 °C	Class 1	4 s	0600 5793
Plug-in measuring tip, 1030mm long, flexible, for high temperatures, outer casing: Inconel 2.4816	 1030 mm Ø 3 mm Please order handle with Part no. 0600 5593	-200 to +1100 °C	Class 1	4 s	0600 5893






Probes Pt100	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Standard air probe	 150 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	-200... +600 °C	Class A	75 s	0604 9773
Precision air probe	 150 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	-100 to +400 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	75 s	0628 0017
Robust surface probe	 150 mm Ø 4 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	-50 to +400 °C	Class B	40 s	0604 9973 0628 0018
Velcro probe for pipes with diameter of max. 75 mm	 280 mm Conn.: Fixed cable	-50 to +150 °C	Class B	40 s	0628 0019
Standard immersion/penetration probe	 200 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	Stainless Steel -200 to +400 °C	Class A	20 s	0604 0273
Standard immersion/penetration probe	 200 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	Nickel -200 to +600 °C	Class A	20 s	0604 0274
Highly accurate immersion/penetration probe incl. certificate	 295 mm Ø 4 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	Stainless Steel -40 to +300 °C	±0.05 °C (+0.01 to +100 °C) ±(0.05 °C ±0.05% of mv) (-40 to 0 °C) ±(0.05 °C ±0.05% of mv) (+100.01 to +300 °C)	60 s	0614 0240
Highly accurate immersion/penetration probe	 200 mm Ø 3 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	-100 to +400 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	30 s	0628 0015
Flexible precision immersion probe, cable heat-proof up to +300°C	 1000 mm Ø 3.5 mm Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	50 mm -100 to +265 °C	1/10 Class B (0 to 100°C) 1/5 Class B (rem. range) to EN 60751	80 s	0628 0016
Robust immersion/penetration probe with sharpened measuring tip, waterproof and oven-proof	 150 mm Ø 3.5 mm Conn.: Fixed cable	Ø 3 mm -200 to +400 °C	Class A	30 s	0604 2573

*with EEPROM: Precision adjustment for each probe at a measuring point; measuring range limits are saved in probe; 195 extrapolation; surface allowance in surface probe can be adapted to measuring task

Probes NTC	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Highly accurate air probe for air and gas temperature measurements with bare, mechanically protected sensor	 150 mm Ø 9 mm Conn.: Fixed cable	-40 to +130 °C	To UNI curve	60 s	0610 9714
Globe thermometer to measure radiant heat	 Ø 150 mm Conn.: Fixed cable	0 to +120 °C	±0.5 °C (0 to +49.9 °C) ±1 °C (+50 to +120 °C) Accuracy corresponds to ISO 7243, ISO 7726, DIN EN 27726, DIN 33403 requirements		0554 0670






More probes	Illustration	Meas. range	Accuracy	Part no.
Ambient CO probe to measure CO level in ambient air	 190 mm Conn.: Fixed cable	0 to +500 ppm CO	±5% of mv (+100.1 to +500 ppm CO) ±5 ppm CO (0 to +100 ppm CO)	0632 1247
CO ₂ probe measures indoor air quality and monitors the workplace. With plug-in head, connection cable 0430 0143 or 0430 0145 required	 Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +1 Vol. % CO ₂ 0 to +10000 ppm CO ₂	±(50 ppm CO ₂ ±2% of mv)(0 to +5000 ppm CO ₂) ±(100 ppm CO ₂ ±3% of mv)(+5001 to +10000 ppm CO ₂)	0632 1240
Mechanical rpm probe with plug-in head Included	 Conn.: Plug-in head, connection cable 0430 0143 or 0430 0145 required	20 to 20000 rpm	±1 digit	0640 0340
2 probe tips Ø 8 and Ø 12 mm 1 hollow cone Ø 8 mm 1 surface speed disc Ø 19 mm to measure rotational speed: rpm = rotational speed in mm/s				
Current/voltage cable (±1 V, ±10 V, 20 mA)		0 to +1000 mV 0 to +10 V 0 to +20 mA	±1 mV (0 to +1000 mV) ±0.01 V (0 to +10 V) ±0.04 mA (0 to +20 mA)	0554 0007






Accessories	Part no.	Accessories	Part no.
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument, PUR coating material	0430 0143	Adapter to connect NiCr-Ni thermocouples and probes with open wire ends	0600 1693
Cable, 5 m long, connects probe with plug-in head to measuring instrument, PUR coating material	0430 0145	Handle for plug-in measuring tip	0600 5593
Extension cable, 5 m long, between plug-in head cable and instrument, PUR coating material	0409 0063	Silicone heat paste (14g), Tmax = +260°C, Improves heat transfer in surface probes	0554 0004
Telescopic handle, max. 1 m, for probe with plug-in head, Cable: 2.5 m long, PUR coating material	0430 0144		
Glass shaft for immersion/penetration probe to protect from corrosive agents For probes with Part nos. 0604 0273 and 0628 0015	0554 7072		


Air probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Standard ambient air probe up to +70°C	 Ø 12 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	12 s	0636 9740
Duct humidity/temperature probe, can be connected to telescopic handle Telescopic handle 0430 9715, see Ordering data/Accessories	 180 mm Ø 12 mm Fixed cable	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	12 s	0636 9715
Thin humidity probe incl. 4 attachable protection caps for ambient air measurements, measurements in exhaust air ducts and equilibrium moisture measurements	 250 mm Ø 4 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +70 °C)	15 s	0636 2130
Highly accurate reference humidity/temp. probe incl. cal. cert.	 Ø 21 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +70 °C	±1 %RH (+10 to +90 %RH) ±2 %RH (remaining range) * ±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	12 s	0636 9741
Humidity/temperature probe	 Ø 21 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0... +100 %RH -20 to +70 °C	±2 %RH (+2... +98 %RH) ±0.4 °C (+0.1 to +50 °C) ±0.5 °C (-20 to 0 °C) ±0.5 °C (+50.1 to +70 °C)	12 s	0636 9742





* in the temperature range from +10°C to +30°C




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Suitable probes at a glance



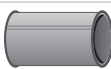






Probes Process humidity	Illustration	Meas. range	Accuracy	t ₉₉	Part no.	
Standard pressure dew point probe for measurements in compressed air systems	 300 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -30 to +50 °C tpd	±0.9 °C tpd (+0.1 to +50 °C tpd) ±1 °C tpd (-4.9 to 0 °C tpd) ±2 °C tpd (-9.9 to -5 °C tpd) ±3 °C tpd (-19.9 to -10 °C tpd) ±4 °C tpd (-30 to -20 °C tpd)	300 s	0636 9840	
Precision pressure dew point probe for measurements in compressed air systems incl. cert. with test point -40°C tpd	 300 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -60 to +50 °C tpd	±0.8 °C tpd (-4.9 to +50 °C tpd) ±1 °C tpd (-9.9 to -5 °C tpd) ±2 °C tpd (-19.9 to -10 °C tpd) ±3 °C tpd (-29.9 to -20 °C tpd) ±4 °C tpd (-40 to -30 °C tpd)	300 s	0636 9841	
High humidity level probe w/ heated sensor element, no humidity on sensor	 300 mm Ø 12 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +85 °C	±2.5 %RH (0 to +100 %RH)	±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +85 °C)	30 s	0636 2142
Robust high temperature/humidity probe up to +180°C	 300 mm Ø 12 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +180 °C	±2 %RH (+2 to +98 %RH)	±0.4 °C (+0.1 to +50 °C) ±0.5 °C (remaining range)	30 s	0628 0021
Flexible humidity probe (does not retain shape) for measurements in inaccessible places	 1500 mm 100 mm Ø 12 mm Plug-in head, connection cable 0430 0143 or 0430 0145 required	0 to +100 %RH -20 to +180 °C	±2 %RH (+2 to +98 %RH)	±0.4 °C (+0.1 to +50 °C) ±0.5 °C (-20 to 0 °C) ±0.5 °C (+50.1 to +180 °C)	30 s	0628 0022

Probes Material and equilibrium moisture	Illustration	Meas. range	Accuracy	t ₉₉	Part no.	
Flexible humidity probe with mini module for meas. e.g. on material testing rigs, module cable length 1500mm, probe tip 50x19x7mm		0 to +100 %RH -20 to +125 °C	±2 %RH (+2 to +98 %RH)	±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	20 s	0628 0013
Sword probe for measuring humidity and temperature in stacked material		0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH)	±0.4 °C (-10 to +50 °C) ±0.5 °C (-20 to -10.1 °C) ±0.5 °C (+50.1 to +70 °C)	12 s	0636 0340
Robust humidity probe e.g. for measuring equilibrium moisture or for measurements in exhaust ducts to +120°C		0 to +100 %RH -20 to +120 °C	±2 %RH (+2 to +98 %RH)	±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	30 s	0636 2140
Material moisture probe				Free scaling, reference measurement, no water level		0636 0365
Material/building moisture cable		0 to 100 k Ohm = 100 to 0 %		Display values in instrument display mean: 100 to 66 wet; 0 to 1 very dry		0636 0565

Probes aw value	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
aw value set: pressure-tight precision humidity probe with certificate, measurement chamber and 5 sample bowls (plastic)		0 to +1 aW 0 to +100 %RH -20 to +70 °C	±0.01 aW (+0.1 to +0.9 aW) ±0.02 aW (+0.9 to +1 aW)	±0.4 °C (-10 to +50 °C) ±0.5 °C (remaining range)	0628 0024
Reproducibility of aw value ±0.003					

Pressure probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Precision pressure probe, 100 Pa, measures differential pressure		Differential pressure probe	0 to +100 Pa	±(0.3 Pa ±0.5% of mv) (0 to +100 Pa)	0638 1345
Pressure probe, 10 hPa, measures differential pressure		Differential pressure probe	0 to +10 hPa	±0.03 hPa (0 to +10 hPa)	0638 1445
Pressure probe, 100 hPa, measures differential pressure		Differential pressure probe	0 to +100 hPa	±0.5% of mv (+20 to +100 hPa) ±0.1 hPa (0 to +20 hPa)	0638 1545
Pressure probe, 2000 hPa, measures absolute pressure		Absolute pressure probe	0 to +2000 hPa	±5 hPa (0 to +2000 hPa)	0638 1645

Pressure probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Low pressure probe made of refrigerant-proof stainless steel, up to 10 bar, without cable		Screw-in thread 7/16" UNF Low pressure probe	-1 to +10 bar	±1% of fsv Overload ±32 bar	0638 1740
High pressure probe, refrigerant-proof stainless steel, up to 30 bar, without cable		Screw-in thread 7/16" UNF High pressure probe	-1 to +30 bar	±1% of fsv Overload ±70 bar	0638 1840
High press. probe, refrigerant-proof st. steel, up to 40 bar, w/o cable		Screw-in thread 7/16" UNF High pressure probe	-1 to +40 bar	±1% of fsv (-1 to +40 bar) Overload ±70 bar (-1 to +40 bar)	0638 1940

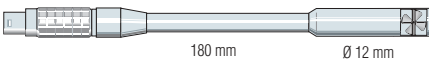

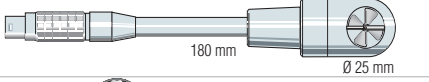



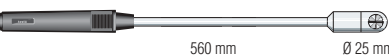
Caps for humidity probes Ø 12mm and 21mm	Illustration	For humidity probes	Part no.
Metal protection cage, Ø 21 mm for humidity probes, material: stainless steel V4A. Quick adjustment time, robust and temperature-proof. Used when measuring velocities of less than 10 m/s	 Ø 21 mm	All humidity probes with Ø 21 mm	0554 0665
Metal protection cage, Ø 12 mm for humidity probes, material: stainless steel V4A. Quick adjustment time, robust and temperature-proof. Used when measuring velocities of less than 10 m/s.	 Ø 12 mm	0636 9740, 0636 9715	0554 0755
Wire mesh filter, Ø 21 mm, insertable filter for metal protection cage and plastic cap. Material: stainless steel V4A, quick adjustment time, protects from dirt and damage. Applications: meteorology, splashwater, condensation.	 Ø 21 mm	All humidity probes with Ø 21 mm	0554 0667
Cap with wire mesh filter, Ø 12 mm		All humidity probes with Ø 12 mm	0554 0757
Teflon sintered filter, Ø 21 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities	 Ø 21 mm	All humidity probes with Ø 21 mm	0554 0666
Teflon sintered filter, Ø 12 mm, PTFE. Not affected by condensation, water-repellent, resistant to corrosive substances. Applications: compressed air measurements, high humidity range (continuous measurements), high velocities	 Ø 12 mm	0636 9769, 0636 9740, 0636 9715	0554 0756
Teflon sintered filter, Ø 12 mm, for corrosive substances, High humidity range (non-stop measurements), high flow speeds	 Ø 12 mm	0628 0021, 0628 0022, 0636 2140, 0636 2142	0554 0758
Stainless steel sintered cap, Ø 21 mm, made of stainless steel V2A. Highly robust, suitable for penetration, clean with compressed air, mechanical protection of sensor. Applications: high mechanical loads, high velocity speeds.	 Ø 21 mm	All humidity probes Ø 21 mm	0554 0640
Stainless steel sintered cap, Ø 12mm, made of stainless steel V2A. Highly robust, suitable for penetration, should be cleaned with compressed air, mechanical protection of sensor. Applications: high mechanical loads, high velocity speeds.	 Ø 12 mm	0636 9740, 0636 9715	0554 0647
Teflon cap, Ø 5 mm, attachable, PTFE material, (5 off). Applications: dust protection, high humidity level measurements, high velocities	 Ø 5 mm	0636 2130	0554 1031

Accessories: Humidity probes	Part no.
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143
Cable, 5 m long, connects probe with plug-in head to measuring instrument PUR coating material	0430 0145
Extension cable, 5 m long, between plug-in head cable and instrument PUR coating material	0409 0063
Telescopic handle, max. 1 m, for probe with plug-in head Cable: 2.5 m long, PUR coating material	0430 0144
Telescopic handle, 340 - 800mm long	0430 9715
Adapter for surface humidity measuring, for humidity probes Ø 12mm Locates damp spots on walls, for example	0628 0012
Cap for bore holes, for humidity probe Ø 12 mm Measures equilibrium moisture in bore holes	0554 2140
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes	0554 0660
Control and storage humidity (33%RH) for humidity probes	0554 0636

Accessories: Pressure probes	Part no.
Connection cable, 2.5 m long, for pressure probes 0638 1741/1841/1941	0409 0202
Adapter for pressure probes, 1/2" outer thread, 1/4" inner thread	0699 3127
Magnetic holder for pressure probes, For pressure probes 0638 1345/..1445/..1545/..1645	0554 0225


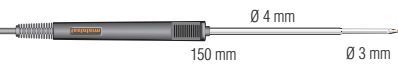
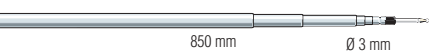
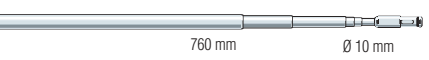

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Suitable probes at a glance


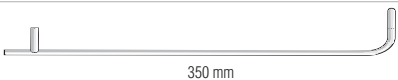


Vane probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Vane probe, Ø 12 mm, can be attached to handle or telescopic handle	 180 mm Ø 12 mm	Vane	+0.6 to +20 m/s Oper. temp. -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.6 to +20 m/s)	0635 9443
Vane/temperature probe, Ø 16 mm, attachable to handle or telescopic handle	 180 mm Ø 16 mm	Vane Type K (NiCr-Ni)	+0.4 to +60 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)	0635 9540
Vane/temperature probe, Ø 25 mm, can be attached to handle or telescopic handle	 180 mm Ø 25 mm	Vane Type K (NiCr-Ni)	+0.4 to +40 m/s -30 to +140 °C	±(0.2 m/s ±1% of mv) (+0.4 to +40 m/s)	0635 9640
Bendable vane probe (can be bent by 90°), Ø 60 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	 Ø 60 mm	Vane	+0.25 to +20 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.25 to +20 m/s)	0635 9440
Bendable vane probe (can be bent by 90°), Ø 100 mm, attachable to handle or telescopic handle, for measurements on ventilation outlets	 Ø 100 mm	Vane	+0.1 to +15 m/s Oper. temp. 0 to +60 °C	±(0.1 m/s ±1.5% of mv) (+0.1 to +15 m/s)	0635 9340
Vane probe, Ø 16 mm, for stationary assembly, 3 m cable (PVC)	 250 mm Ø 16 mm		+0.4 to +60 m/s Oper. temp. 0 to +70 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)	0628 0036
High temperature vane probe, Ø 25 mm, with handle for continuous measurements up to +350 °C	 560 mm Ø 25 mm	Vane Type K (NiCr-Ni)	+0.6 to +20 m/s -40 to +350 °C	±(0.3 m/s ±1% of fsv) (+0.6 to +20 m/s)	0635 6045

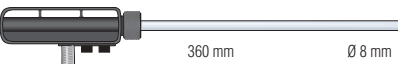


Accessories: Vane probes	Part no.
Professional telescopic handle for plug-in vane probes, max. 1 m long, extension on request	0430 0941
Extension for telescopic handle, 2 m long Please also order the 0409 0063 extension cable	0430 0942
Handle for plug-in vane probes	0430 3545

Accessories: Vane probes	Part no.
Swan neck, flexible connection between probe and connection part	0430 0001
Magnetic probe holder for vane probes	0554 0430

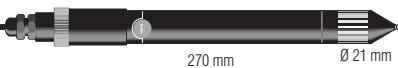


Thermal probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC)	 150 mm Ø 3 mm	Hot bulb NTC	0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)	0628 0035
Affordable, robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, with handle	 150 mm Ø 4 mm Ø 3 mm	Hot bulb NTC	0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)	0635 1549
Robust hot bulb probe, Ø 3 mm, with handle and telescopic handle for measurements in the lower velocity range	 850 mm Ø 3 mm	Hot bulb NTC	0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)	0635 1049
Quick-action hot wire probe, Ø 10 mm, with telescopic handle, for measurements in the lower velocity range with direction recognition	 760 mm Ø 10 mm	Hot bulb NTC	0 to +20 m/s -20 to +70 °C	±(0.03 m/s ±4% of mv) (0 to +20 m/s)	0635 1041
Thermal anemometer, Ø 10 mm, w. telescopic handle, measures air flow in lab fume cupboards to DIN EN 14175 (draft)	 760 mm Ø 10 mm	Hot bulb NTC	0 to +5 m/s 0 to +50 °C	±(0.02 m/s ±5% of mv) (0 to +5 m/s)	0635 1047

Pressure probes	Illustration	Probe type	Meas. range	Accuracy	Part no.
Precision pressure probe, 100 Pa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +100 Pa	±(0.3 Pa ±0.5% of mv) (0 to +100 Pa)	0638 1345
Pressure probe, 10 hPa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +10 hPa	±0.03 hPa (0 to +10 hPa)	0638 1445
Pressure probe, 100 hPa, measures differential pressure and velocities (in connection with Pitot tube)		Differential pressure probe	0 to +100 hPa	±0.5% of mv (+20 to +100 hPa) ±0.1 hPa (0 to +20 hPa)	0638 1545

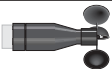
Prandtl's Pitot tubes	Illustration	Accuracy	Part no.
Pitot tube, 300 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/..1445/..1545	 300 mm Ø 4 mm	Oper. temp. 0 to +600 °C	0635 2245
Pitot tube, 350 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/..1445/..1545	 350 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2145
Pitot tube, 500 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/..1445/..1545	 500 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2045
Pitot tube, 1000 mm long, stainless steel, measures flow speed when used with pressure probes 0638 1345/..1445/..1545	 1000 mm Ø 7 mm	Oper. temp. 0 to +600 °C	0635 2345

Straight Pitot tubes	Illustration	Probe type	Meas. range	Part no.
Pitot tube, stainless steel, 360 mm long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545	 360 mm Ø 8 mm	Type K (NiCr-Ni)	-40 to +600 °C	0635 2040
Pitot tube, stainless steel, 500 mm long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545	 500 mm Ø 8 mm	Type K (NiCr-Ni)	-40 to +600 °C	0635 2140
Pitot tube, stainless steel, 1000 mm long, measures velocity with temperature, for pressure probes 0638 1345/..1445/..1545	 1000 mm Ø 8 mm	Type K (NiCr-Ni)	-40 to +600 °C	0635 2240







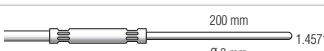

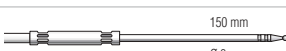
Accessories: Pressure probes	Part no.	Accessories: Pressure probes	Part no.
Connection hose, silicone, 5m long, Silicone hose connects Pitot tube and pressure probe, 5 m long	0554 0440	Magnetic holder for pressure probes For pressure probes 0638 1345/..1445/..1545/..1645	0554 0225

Comfort level measurement	Illustration	Probe type	Meas. range	Accuracy	Part no.
3-function probe for simultaneous measurement of temperature, humidity and velocity. With plug-in head, 0430 0143 connection cable required	 270 mm Ø 21 mm	Hot bulb Testo humid. sensor, cap. NTC	0 to +10 m/s 0 to +100 %RH -20 to +70 °C	±(0.03 m/s ±5% of mv)(0 to 10 m/s) ±2 %RH (+2 to +98 %RH) ±0.4 °C (0 to +50 °C) ±0.5 °C (remaining range)	0635 1540
Comfort level probe for measuring degree of turbulence, with telescopic handle and stand. Fulfills DIN 1946 Part 2 or EN 12 599 requirements	 890 mm Ø 90 mm	NTC Hot wire	0 to +5 m/s 0 to +50 °C	±(0.03 m/s ±4% of mv) (0 to +5 m/s) ±0.3 °C (0 to +50 °C)	0628 0009
Wet Bulb Globe temperature probe to assess workplaces subjected to heat, in accordance with ISO 7243 or DIN 33403, incl. WBGT case	 Ø 150 mm		0 to +120 °C	In accordance with ISO 7243 or DIN 33403	0635 8888 ID No. 0699 4239/1

Accessories: 3-Function probe	Part no.	Accessories: 3-Function probe	Part no.
Adapter for humidity adjustment of 3-function probe 0635 1540 Order with adjustment set	0554 0661	Cable, 1.5 m long, connects probe with plug-in head to meas. instrument PUR coating material	0430 0143

Other features	Illustration	Probe type	Meas. range	Accuracy	Part no.
Shell anemometer, 3 m cable, for meteorological wind measurement		Vane	+0.7 to +30 m/s	±(0.3 m/s ±5% of mv) (+0.7 to +30 m/s)	0635 9045

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Suitable probes at a glance

Stationary probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Robust, quick-action surface probe, NiCr-Ni, with M14 x 1.5 thread, incl. 2 nuts for mounting, 2 m cable (silicone)		-50 to +180 °C	Class 2	3 s	0628 6021
Universal probe, NiCr-Ni, for measurements in liquids and gases, 2 m cable (PVC), IP 42 connection socket		-200 to +1100 °C	Class 1	2 s	0628 6004
Screw-in probe, Pt100, for measurements at hard-to-access points, M 6 thread, 2 m cable (PVC)		-10 to +80 °C	Class A	70 s	0628 6014
Immersion probe, Pt100, for measurements in water and unclean environments, 2 m cable (silicone)		-50 to +180 °C	Class A	70 s	0628 6003
Immersion probe, Pt100, for measurements in corrosive substances, 2 m cable (PTFE), IP 67		-50 to +260 °C	Class A	50 s	0628 6008
Resistance thermometer, Pt100, for surface measurement, 2 m cable (silicone), IP 65		-30 to +180 °C	Class A	150 s	0628 6016
Universal probe, Pt100, for measurements in liquids and gases, 2m cable (PVC), IP 42		-50 to +400 °C	Class A	15 s	0628 6044
Vane probe, Ø 16 mm, for stationary assembly, 3 m cable (PVC)		+0.4 to +60 m/s Oper. temp. 0 to +70 °C	±(0.2 m/s ±1% of mv) (+0.4 to +60 m/s)		0628 0036
Robust hot bulb probe, Ø 3 mm, for measurements in the lower velocity range, 2m cable (PVC)		0 to +10 m/s -20 to +70 °C	±(0.03 m/s ±5% of mv) (0 to +10 m/s)		0628 0035
Accessories for stationary probes		Part no.		Accessories for stationary probes	
Wall holder with screw-in connection for vane probe, Ø 16mm		0628 0037		Clamp screw connection (steel) with G 1/4" thread, to attach temperature probes with Ø 6mm	
Clamp screw connection (steel) with M 8x1 thread, to attach temperature probes with Ø 3mm		0400 6163		0400 6166	



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