

testo 735-1

The robust and compact measuring instrument with a probe socket for highly accurate Pt100 probes and two sockets for fast-action thermocouple probes. Readings from up to three additional temperature probes can be shown on the instrument's clear display; measurement data transmission is by radio i.e. wireless. A total of six channels can be collected in this way by the instrument. Using the highly accurate, plug-in Pt100 immersion/penetration probe, a system accuracy of 0.05 °C with a resolution of 0.001 °C is reached. The measurement system is therefore ideally suited for use as a working standard. Data measured by testo 735-1 can be transmitted by infrared to the Testo printer for documentation purposes. If cyclical printing is used, it is also possible to print data on the printer once every minute, for example.

testo 735-1, 3 channel temperature measuring instrument T/C Type K/T/Pt100, audible alarm, connection for max. 3 optional radio probes, incl. battery and calibration protocol

Part no.
0560 7351

testo 735-2

The robust and compact measuring instrument with a probe socket for highly accurate Pt100 probes and two sockets for fast-action thermocouple probes. Readings from up to three additional temperature probes can be displayed in the testo 735-2 measuring instrument's clear display; data transmission is by radio, i.e. wireless. In this way, a total of 6 channels is recorded by the measuring instrument. A system accuracy of 0.05 °C with a resolution of 0.001 °C is reached using the plug-in highly accurate Pt100 immersion/penetration probe. The measuring instrument is therefore ideally suited for use as a working standard.

Temperature characteristics are recorded in the instrument and then analysed in graphics and tables on your PC/Notebook. Data is printed on site on the Testo printer using infrared.

Selectable user profiles, i.e. allocation of specific function buttons to an application facilitate intuitive and fast operation. Individual protocols or measurement series can be stored according to site. Up to 99 sites can be stored in the instrument. The storage cycle is user-defined between 1 second and 24 hours.

testo 735-2, 3 channel temp. meas. instr. T/C Type K/T/Pt100, audible alarm, connection for max. 3 optional radio probes, with readings memory, PC software and USB data transmission cable, with battery and calibration protocol

Part no.
0563 7352

Highly accurate temperature measuring instrument with data memory

- System accuracy up to 0.05 °C
- Testo printer prints measurement data on site
- Cyclical printing of readings once every minute, for example (testo 735-1)
- Instrument memory for 10,000 readings (testo 735-2)
- PC software for filing and documenting measurement data (testo 735-2)
- Displays, saves and prints Delta T, min, max and mean values
- Audible alarm when limit values are exceeded
- Protection class IP54



Technical data			
Probe type	Pt100 with probe 0614 0235	Pt100	Type K/T (NiCr-Ni)
Meas. range	-40 to +300 °C	-200 to +800 °C	-200 to +1370 °C
Accuracy ±1 digit	See probe data	±0.2 °C (-100 to +199.9 °C) ±0.2% of mv (remaining range)	±0.3 °C (-60 to +60 °C) ±0.5% of mv (remaining range)
Resolution	0.001 °C (-40 to +199.999 °C) 0.01 °C (remaining range)	0.05 °C	0.1 °C
Oper. temp.	-20 to +50 °C	Dimensions 220 x 74 x 46 mm	
Storage temp.	-30 to +70 °C	Weight 428 g	
Battery type	Alkali manganese, mignon, Type AA	Material/Housing ABS/TPE/Metal	
		Warranty 2 years	

See following pages for probes and accessories

Laboratory probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Laboratory probe, glass-coated, exchangeable glass pipe, resistant to corrosive substances	Fixed cable	-50 to +400 °C	Class A	45 s 12 s*	0609 7072
Glass shaft for immersion/penetration probe to protect from corrosive agents					* Without protective glass 0554 7072
Air probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Robust air probe, T/C Type K	Fixed cable	-60 to +400 °C	Class 2	25 s	0602 1793
Efficient, robust air probe, Pt100	Fixed cable	-50 to +400 °C	Class A	70 s	0609 1773
Surface probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Robust, waterproof surface temperature probe, Pt100	Fixed cable	-50 to +400 °C	Class B	40 s	0609 1973
Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, T/C Type K	Fixed cable	-60 to +300 °C	Class 2	3 s	0602 0393
Efficient, waterproof surface probe with small measurement head for flat surfaces, T/C Type K	Fixed cable	-60 to +1000 °C	Class 1	20 s	0602 0693
Fast-action surface probe with sprung thermocouple strip, bent, also for uneven surfaces, measurement range short-term to +500°C, T/C Type K	Fixed cable	-60 to +300 °C	Class 2	3 s	0602 0993
Flat head surface probe with telescopic handle max. 600 mm for measurements at hard-to-access points, T/C Type K	Fixed cable	-50 to +250 °C		3 s	0602 2394
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces	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	Fixed cable	-50 to +400 °C	Class 2		0602 4892
Waterproof surface probe with widened measurement tip for flat surfaces, T/C Type K	Fixed cable	-60 to +400 °C	Class 2	30 s	0602 1993
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, Tmax +120°C	Fixed cable	-50 to +120 °C	Class 1	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Measurement range short-term to +280°C, T/C Type K	Fixed cable	-60 to +130 °C	Class 2	5 s	0602 4592
Spare meas. head for pipe wrap probe	Fixed cable	-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	Fixed cable	-50 to +100 °C	Class 2	5 s	0602 4692
Immersion/penetr. probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Robust, waterproof Pt100 immersion/penetration probe	Fixed cable	-50 to +400 °C	Class A	12 s	0609 1273
Highly accurate Pt100 immersion/penetration probe with certificate	Fixed cable	-40 to +300 °C	±0.05 °C (+0.01 to +100 °C) ±(0.05 °C +0.05% of mv) (remaining range)	60 s	0614 0235
Efficient and fast-action immersion probe, waterproof, T/C Type K	Fixed cable	-60 to +1000 °C	Class 1	2 s	0602 0593
Fast-action, waterproof immersion/penetration probe, T/C Type K	Fixed cable	-60 to +800 °C	Class 1	3 s	0602 2693
Immersion tip, flexible	Fixed cable	-200 to +1000 °C	Class 1	5 s	0602 5792
Waterproof immersion/penetration probe, T/C Type K	Fixed cable	-60 to +400 °C	Class 2	7 s	0602 1293

testo 735
Probes / Accessories

Thermocouples	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Thermocouple with T/C adapter, flexible, 800mm long, fibre glass, T/C Type K	800 mm Ø 1.5 mm	-50 to +400 °C	Class 2	5 s	0602 0644
Thermocouple with T/C adapter, flexible, 1500mm long, fibre glass, T/C Type K	1500 mm Ø 1.5 mm	-50 to +400 °C	Class 2	5 s	0602 0645
Thermocouple with T/C adapter, flexible, 1500mm long, Teflon, T/C Type K	1500 mm	-50 to +250 °C	Class 2	5 s	0602 0646
Food probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Robust, Pt100 stainless steel food probe (IP65)	125 mm Ø 4 mm Fixed cable 15 mm Ø 3 mm	-50 to +400 °C	Class A	10 s	0609 2272
Waterproof food probe made of stainless steel (IP65), T/C Type K	125 mm Ø 4 mm Fixed cable 30 mm Ø 3.2 mm	-60 to +400 °C	Class 2	7 s	0602 2292
Robust food probe with special handle, IP 65, reinforced cable (PUR), T/C Type K	115 mm Ø 5 mm Fixed cable 30 mm Ø 3.5 mm	-60 to +400 °C	Class 1	6 s	0602 2492
Frozen food probe, corkscrew design, T/C Type K	110 mm Ø 8 mm Plug-in cable 30 mm Ø 4 mm	-60 to +400 °C	Class 1	15 s	0602 3292
Waterproof super-fast needle probe, highly accurate measurements without visible penetration hole. Specially for food, ideal for hamburgers, steaks, pizza, eggs etc., T/C Type K	150 mm Ø 1.4 mm Fixed cable 15 mm Ø 1 mm	-60 to +250 °C	Class 1	1 s	0628 0026
Waterproof robust immersion/penetration probe with metal protection hose Tmax +230°C, e.g. for monitoring temp. in cooking oil, T/C Type K	240 mm Ø 4 mm Fixed cable	-50 to +230 °C	Class 1	15 s	0628 1292
Stable, robust surface probe with PTFE standing area and metal protection hose Tmax +230°C for cooking surfaces, heating and baking trays, T/C Type K	120 mm Ø 60 mm Fixed cable	-50 to +230 °C	Class 2	45 s	0628 9992

See back flap for radio probes

Accessories	Part no.
Accessories for measuring instrument	
Plug-in mains adapter for testo 735, testo 635, testo 435, 5 VDC 500 mA with European adapter	0554 0447
Printer and Accessories	
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	0554 0547
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
External recharger incl. 4 Ni-MH rechargeable batteries with built-in, international mains adapter - 100-240 V, 300 mA, 50/60 Hz, 12 VA/instrument	0554 0610
Transport and Protection	
Service case for basic equipment of measuring instrument and probes, dimensions: 400 x 310 x 96 mm	0516 0035
Service case for measuring instrument, probes and accessories, Dimensions 490 x 420 x 110 mm	0516 0235
Other features	
Probe holder for connection to stand	0554 0735
Handle for attachable measurement tips	0409 1092
Extension cable, 5m, for thermocouple probe Type K	0554 0592
Silicone heat paste (14g), Tmax = +260°C Improves heat transfer in surface probes	0554 0004

Accessories	Part no.
Calibration certificates	
ISO calibration certificate/Temperature, For air/immersion probes, calibration points -18°C; 0°C; +60°C	0520 0001
ISO calibration certificate/Temperature, Meas. instr. with air/immersion probe; cal. points 0°C; +150°C; +300°C	0520 0021
ISO calibration certificate/Temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071
DKD calibration certificate/Temperature, Meas. instr. with air/immersion probe; calibration points -20°C; 0°C; +60°C	0520 0211
DKD calibration certificate/Temperature, Contact surface temperature probes; calibration points +100°C; +200°C; +300°C	0520 0271
5 point adjustment for 0614 0235 probe, incl. ISO certificate at -40, 0, +100, +200, +300 °C	0520 0142
5 point calibration for 0614 0235 probe, Incl. DKD certificate at -40, 0, +100, +200, +300 °C	0520 0241