

testo 845 with integrated humidity module

For the first time, surface temperatures with smallest diameters can be measured accurately at short and long distances. The switchable optics for far-field and close focus measurement make this possible.

Far-field measurements are carried out at an optical resolution of 75:1. In this way, surface temperatures can be measured accurately even at great distances from the object to be measured. At a distance of 1.2 metres from the object to be measured, the measuring spot diameter is only 16 mm. A cross laser marks the measuring spot exactly during measurement.

During measurements at a short distance from the object being measured, the close focus optics has a spot diameter of only 1 mm at a distance of 70 mm. Two laser points mark the spot exactly.

Infrared Thermometer with Switchable Optics (far-field/close focus)

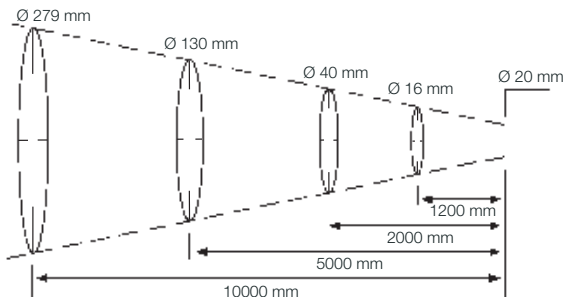
- Switchable optics for far-field measurements (75:1) and close focus (1 mm, distance 70 mm)
- Especially bright cross laser sighting for indicating the actual measurement point
- Integrated humidity module for measuring indoor air humidity and for determining dewpoint distance
- Reference accuracy ± 0.75 °C with super-fast measurement technology (scanning 100 ms)
- Backlit display (3-line), shows °C, %RH, °C td, min./max. values, alarm limit values and degree of emission
- Optical and audible alarm when limit values are exceeded
- Probe socket for TC probe for determining emissivity
- Instrument memory for 90 measurement protocols
- PC software for archiving and documenting measurement data (included in delivery)
- Tripod fitting for online measurement via USB cable (included in delivery)
- Measurement data documentation on site with Testo printer



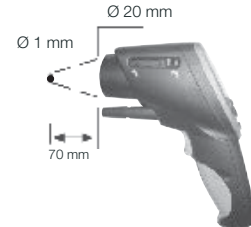
testo 845, infrared temperature measuring instrument with cross laser sighting incl. humidity module, switchable optics for far-field and close focus measurement, contact temperature probe attachable, optical/audible alarm, reading memory, PC software incl. USB data transfer cable, aluminium case, battery and calibration protocol

Part no.
0563 8451

Far-field measurement



Close focus measurement



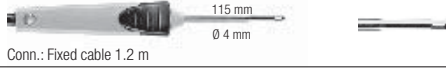

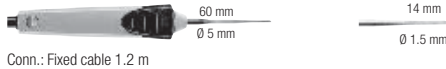
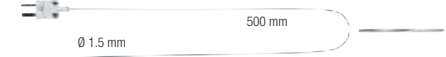
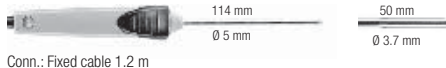
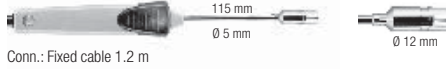
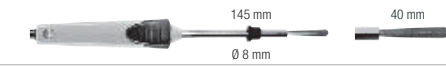
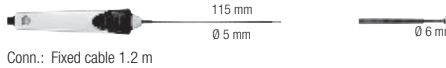

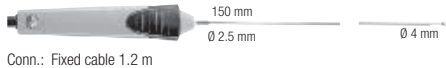
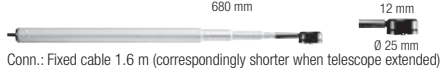


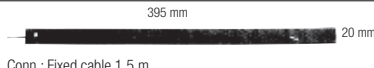

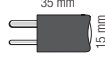

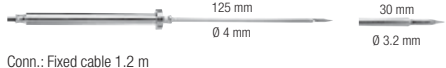

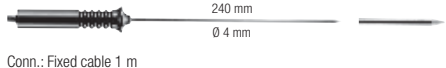

Switch to far-field measurement at a measurement distance > 250 mm.

Technical data

Probe type	Infrared	Type K (NiCr-Ni)	Humidity module
Meas. range	-35 to +950 °C	-35 to +950 °C	0 to +100 %RH 0 to +50 °C -20 to +50 °C td
Accuracy ±1 digit	±2.5 °C (-35 to -20.1 °C) ±1.5 °C (-20 to +19.9 °C) ±0.75 °C (+20 to +99.9 °C) ±0.75% of mv (+100 to +950 °C)	±0.75 °C (-35 to +75 °C) ±1% of mv (+75.1 to +950 °C)	±2 %RH (2 to 98 %RH) ±0.5 °C (+10 to +40 °C) ±1 °C (remaining range)
Resolution	0.1 °C	0.1 °C	0.1 °C td
Oper. temp.	-20 to +50 °C	Emission factor	Adjustable 0.1 to 1.0
Storage temp.	-40 to +70 °C	Material/Housing	black/gray, metal screen
Battery type	2 AA batteries	Optical resolution	Far-field (75:1): 16 mm @ 1200 mm (90%) Near-field (close focus): 1 mm @ 70 mm (90%)
Battery life	25 h (without laser), 10 h (with laser without light), 5 h (with laser and 50% light)	Dimensions	155 x 58 x 195 mm
Measurement rate	t95: 150ms; Scanning Max/Min/Alarm: 100 ms	Weight	465 g
		Warranty	2 years

Accessories

Accessories	Part no.
Plug-in mains adapter, 5 VDC 500 mA with European adapter, 100-250 VAC, 50-60 Hz	0554 0447
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries, for printing out measurements on site	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
testo saline pots for control and humidity adjustment of humidity probes, 11.3 %RH and 75.3 %RH with adapter for humidity probe, quick checks or calibration of humidity probe	0554 0660
Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), E = 0.95, temperature resistant to +250 °C	0554 0051
Silicone heat paste (14g), T _{max} = +260°C, improves heat transfer in surface probes	0554 0004
ISO calibration certificate/temperature, infrared thermometer; calibration points +60°C; +120°C; +180°C	0520 0002
ISO calibration certificate/temperature, Infrared thermometers, calibration points -18°C, 0°C, +60°C	0520 0401

Air probes	Illustration	Meas. range	Accuracy	t99	Part no.
Robust air probe, T/C Type K	 115 mm Ø 4 mm Conn.: Fixed cable 1.2 m	-60 to +400 °C	Class 2*	25 s	0602 1793
Immersion/penetr. probes	Illustration	Meas. range	Accuracy	t99	Part no.
Efficient and fast-action immersion probe, waterproof, TC Type K	 Ø 1.5 mm 300 mm Conn.: Fixed cable 1.2 m	-60 to +1000 °C	Class 1*	2 s	0602 0593
Fast-action, waterproof immersion/penetration probe, TC Type K	 60 mm Ø 5 mm 14 mm Ø 1.5 mm Conn.: Fixed cable 1.2 m	-60 to +800 °C	Class 1*	3 s	0602 2693
Immersion tip, flexible, TC Type K	 Ø 1.5 mm 500 mm	-200 to +1000 °C	Class 1*	5 s	0602 5792
Waterproof immersion/penetration probe, TC Type K	 114 mm Ø 5 mm 50 mm Ø 3.7 mm Conn.: Fixed cable 1.2 m	-60 to +400 °C	Class 2*	7 s	0602 1293
Surface probes	Illustration	Meas. range	Accuracy	t99	Part no.
Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, TC Type K	 115 mm Ø 5 mm Ø 12 mm Conn.: Fixed cable 1.2 m	-60 to +300 °C	Class 2*	3 s	0602 0393
Fast-reaction paddle surface probe, for measurements in inaccessible places, e.g. narrow apertures and slots, TC Type K	 145 mm Ø 8 mm 40 mm Conn.: Fixed cable	0 to +300 °C	Class 2*	5 s	0602 0193
Waterproof surface probe with widened measurement tip for flat surfaces, T/C Type K	 115 mm Ø 5 mm Ø 6 mm Conn.: Fixed cable 1.2 m	-60 to +400 °C	Class 2*	30 s	0602 1993
Fast-action surface probe with sprung thermocouple strip, bent, also for uneven surfaces, measurement range short-term to +500°C, TC Type K	 80 mm Ø 5 mm 50 mm Ø 12 mm Conn.: Fixed cable 1.2 m	-60 to +300 °C	Class 2*	3 s	0602 0993
Efficient, waterproof surface probe with small measurement head for flat surfaces, TC Type K	 150 mm Ø 2.5 mm Ø 4 mm Conn.: Fixed cable 1.2 m	-60 to +1000 °C	Class 1*	20 s	0602 0693
Flat head surface probe with telescopic handle max. 680 mm for measurements at hard-to-access points, TC Type K	 680 mm 12 mm Ø 25 mm Conn.: Fixed cable 1.6 m (correspondingly shorter when telescope extended)	-50 to +250 °C	Class 2*	3 s	0602 2394
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K	 35 mm Ø 20 mm Conn.: Fixed cable 1.6 m	-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, TC Type K	 75 mm Ø 21 mm Conn.: Fixed cable 1.6 m	-50 to +400 °C	Class 2*		0602 4892
Surface probes	Illustration	Meas. range	Accuracy	t99	Part no.
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, Tmax +120°C, TC Type K	 395 mm 20 mm Conn.: Fixed cable 1.5 m	-50 to +120 °C	Class 1*	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term to +280°C, TC Type K	 Conn.: Fixed cable 1.2 m	-60 to +130 °C	Class 2*	5 s	0602 4592
Spare meas. head for pipe wrap probe, TC Type K	 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, TC Type K	 Conn.: Fixed cable 1.2 m	-50 to +100 °C	Class 2*	5 s	0602 4692
Food probes	Illustration	Meas. range	Accuracy	t99	Part no.
Waterproof food probe made of stainless steel (IP65), TC Type K	 125 mm Ø 4 mm 30 mm Ø 3.2 mm Conn.: Fixed cable 1.2 m	-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 30 mm Ø 3.5 mm Conn.: Fixed cable 1.2 m	-60 to +400 °C	Class 1*	6 s	0602 2492
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 Conn.: Fixed cable 1 m	-50 to +230 °C	Class 1*	15 s	0628 1292
Thermocouples	Illustration	Meas. range	Accuracy	t99	Part no.
Thermocouple with TC adapter, flexible, 800mm long, fibre glass, TC Type K	 800 mm Ø 1.5 mm	-50 to +400 °C	Class 2*	5 s	0602 0644