

testo 845 - Infrared measurement engineering for temperature with built-in humidity module









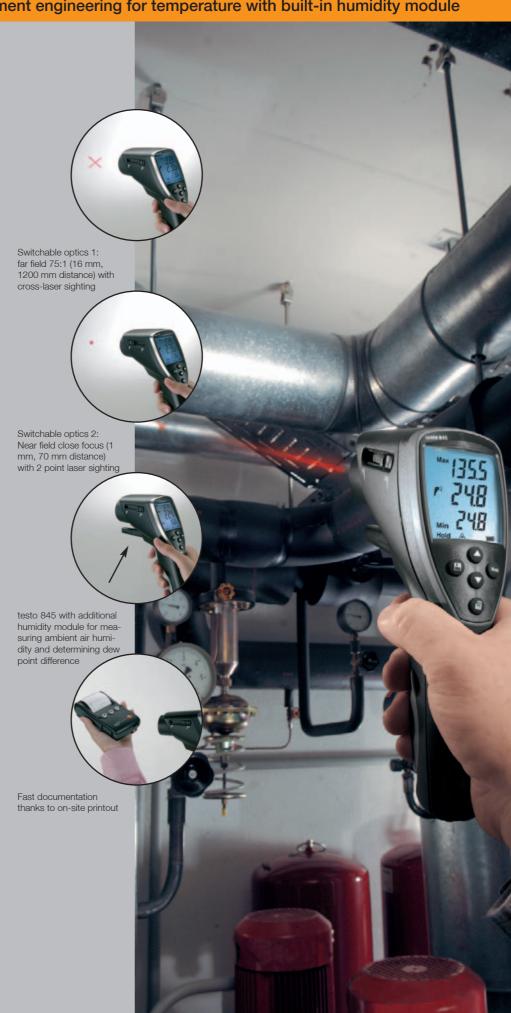


The testo 845 is a milestone in noncontact temperature measurement. For the first time, surface temperatures with smallest diameters can be measured accurately at short and long distances. The switchable optics for far-field and close focus measurement make this possible.

testo 845 is equipped with an optical resolution of 75:1 for far-field measurements. 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. Incorrect measurements are eliminated - you always know exactly where you are measuring.

The close focus optics allow the measurement of temperatures on the smallest surfaces with a diameter of just 1 mm and a distance of 70 mm! Two lasers mark the measuring spot exactly.

- Switchable optics for far-field measurements (75:1) and close focus (1 mm, 70 mm distance)
- · Especially bright cross laser sighting for indicating the actual measuring point
- Reference accuracy ± 0.75 °C with super-fast measurement technololgy (scanning 100 ms)
- Backlit display (3-line), shows °C, min./max. values, alarm limit values and emissivity; in addition display with humidity module: %RH, °Ctd
- Optical and audible alarm when limit values are exceeded
- 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)





Infrared Thermometer with Switchable Optics (75:1 optics)

testo 845

testo 845, infrared temperature measuring instrument with cross-laser sighting, 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 8450

testo 845 with integrated humidity module

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



Checks temperature in air conditioning duct

| Description | | | Meas. range | Part no. |
|-------------|---|------------------|----------------|-----------|
| | Fast-action surface probe with thermocouple strip, also for un surfaces, measurement range +500°C, TC Type K | neven | -60 to +300 °C | 0602 0393 |
| | e e | Ø 5 mm | | |
| | Robust air probe, T/C Typ | e K | -60 to +400 °C | 0602 1793 |
| | 0 | 115 mm Ø 4 mm | | |

| Accessories Ordering data | Part no. |
|--|-----------|
| Humidity module, upgradeable for testo 845 (0563 8450) | 0636 9784 |
| Plug-in mains adapter, 5 VDC 500 mA with European adapter | 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 printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 AA batteries, for printout of reading on site | 0554 0547 |
| Spare thermal paper for printer (6 rolls), permanent ink, 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/75.3 %RH with adapter for humidity probes | 0554 0660 |
| Adhesive tape e.g. for polished surfaces (roll, 10 m long, 25 mm wide), \dot{E} = 0.95, temperature resistant up to +300°C | 0554 0051 |
| Silicone heat paste (14g), Tmax = +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 |

| Far-field measurement | | | | | | |
|---|--|--|--|--|--|--|
| Ø 279 mm Ø 130 mm Ø 16 mm Ø 1200 mm 2000 mm | | | | | | |
| 10000 mm | | | | | | |

| Technical data | | | | | | | | |
|---------------------------------------|-----|--|--|--|--|--|--|--|
| -35 Accuracy ±2.5 ±1 digit ±1.5 ±0.7 | | ared to +950 °C | Contact (type K) -35 to +950 °C | Humidity module 0 to +100 %RH 0 to +50 °C -20 to +50 °C td | | | | |
| | | °C (-35 to -20.1 °C) °C (-20 to +19.9 °C) 5 °C (+20 to +99.9 °C) 5% of mv (+100 to 0 °C) | ± 0.75 °C (-35 to +75 °C) $\pm 1\%$ 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 | | | | |
| Emission factor | | Adjustable 0.1 to 1.0 | | | | | | |
| Optical resolution Measuring rate | | Far-field: (75:1) 16 mm, 1200 mm distance (90%) Close focus: 1 mm, 70 mm distance (90%) | | | | | | |
| | | t95: 250 ms; Scanning Max/Min/Alarm: 100 ms | | | | | | |
| Dimensions | | 155 x 58 x 195 mm | | | | | | |
| Battery type | | 2 AA batteries | | | | | | |
| Battery life | | 25 h (without laser), 10 h (with laser without light), 5 h (with laser and 50% light) | | | | | | |
| Material/Housing | | ABS Black/gray, metal screen | | | | | | |
| Oper. temp. | | -20 to +50 °C | | | | | | |
| Storage temp. | | -40 to +70 °C | | | | | | |

Close focus measurement

