

Infrared temperature measuring instrument

testo 830 - Fast, non-contact measurement of surface temperature

Laser measurement point marker and large optics for exact measurement even at greater distances

Fast recording of measurement values at two measurements per second

Adjustable emissivity

Two adjustable alarm limit values

Good handling thanks to ergonomic "pistol design"

Hold function and display of min./max. values



The testo 830 is a universally applicable infrared thermometer for non-contact measurement of surface temperatures in trade and industry. Thanks to a new processor, and therefore better resolution, even more precise measurements are now possible. Temperature can now be recorded to an accuracy of 0.1 °C. Thanks to the min./max. function, the limit values of the last measurement can be displayed and even better monitored.

The testo 830 infrared thermometer in brief:

testo 830-T1 with 1-point laser measurement spot marking and 10:1 optics.

testo 830-T2 with 2-point laser measurement spot marking and 12:1 optics.

testo 830-T4 with 2-point laser measurement spot marking and 30:1 optics. This instrument measures the surface temperature even of smaller objects at a safe distance. External temperature probes can be connected.



Infrared temperature measuring instruments testo 830

Infrared thermometer with 1-point laser sighting

Infrared thermometer with 2-point laser sighting and connection for external probes

testo 830-T1

testo 830-T1, infrared thermometer, 1 point laser sighting, 10:1 optics, adjustable limit values, alarm function, incl. Batteries and factory calibration certificate

Part no. 0560 8311



testo 830-T2

testo 830-T2, infrared thermometer, 2-point laser sighting, 12:1 optics, adjustable limit values, alarm function, connection of external probes, incl. Batteries and factory calibration certificate

Part no. 0560 8312



The fast and universal infrared thermometer with 1-point laser sighting and 10:1 optics in ergonomic "pistol design".

- · Fast readings
- · Laser sighting
- · Adjustable alarm limits
- Audible and visual alarm if limits are exceeded
- User-friendly thanks to "pistol design"
- · Backlit display
- Adjustable emission factor (0.1 to 1.0)

testo 830-T2 Set

Set testo 830-T2, infrared thermometer with protective leather case, incl. cross-band surface probe (0602 0393), Batteries and factory calibration certificate

Part no. 0563 8312

This universal infrared thermometer is designed to perform fast and accurate surface temperature measurements in the HVAC area and industry. The new high resolution processor enables measurement results of unbelievable accuracy. Thanks to the min./max. function you can define your temperature limit values according to your needs. To control the limits with the help of an audible and visual alarm has never been easier.

In addition to the benefits of testo 830-T1:

- 2-point laser sighting
- Contact measurement with connectable temperature probe
- Emissivity determination with external TC probe



Infrared temperature measuring instruments testo 830

Infrared thermometer with 30:1 optics for exact measurement at a distance

testo 830-T4

testo 830-T4, infrared thermometer, 2-point laser sighting, 30:1 optic, adjustable limit values, alarm function, connection of external probes, incl. Batteries and factory calibration certificate

Part no. 0560 8314



Set testo 830-T4

Set testo 830-T4, infrared thermometer with protective leather case, incl. cross-band surface probe (0602 0393), battery and factory calibration certificate

Part no. 0563 8314

This universal infrared thermometer is designed to perform fast and accurate surface temperature measurements in the HVAC area and industry. At a distance of 1 m the point diameter is only 3.6 cm. From a secure distance even smaller, difficult to access or dangerous targets can be measured without any problems. The new high resolution processor enables measurement results of unbelievable accuracy. And due to the min./max. function you can define your temperature limit values according to your needs. To control the limits with the help of an audible and visual alarm has never been easier.

- 30:1 optics for measuring temperature at a distance, even on small objects
- °C contact measurement with connectable TC probe
- Emissivity determination with external temperature probe
- Input of upper and lower limit value
- Audible and optical alarm when limit values are exceeded
- Display illumination



Technical data

Common technical data for all versions

Spectral range	8 to 14 μm
Emissivity	Adjustable 0.1 to 1.0
Storage temp.	-40 to +70 °C
Oper. temp.	-20 to +50 °C

Battery type	9V block battery
Battery life	15 h
Weight	200 g
Dimensions	190 x 75 x 38 mm
Material/Housing	ABS

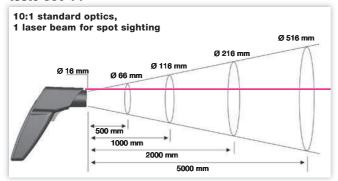
Varying technical data

	testo 830-T1	testo 830-T2	testo 830-T4
Meas. range			
Infrared	-30 to +400 °C	-30 to +400 °C	-30 to +400 °C
Type K (NiCr-Ni)	_	-50 to +500 °C	-50 to +500 °C
Accuracy ±1 digit			
Infrared	±1.5 °C or 1.5 % of mv (+0.1 to +400 °C) ±2 °C or ±2 % of mv (-30 to 0 °C) the higher value applies	±1.5 °C or ±1.5% of mv (+0.1 to +400 °C) ±2 °C or ±2% of mv (-30 to 0 °C) the higher value applies	±1,5 °C (-20 to 0 °C) ±2 °C (-30 to -20,1 °C) ±1 °C or 1% of mv (remaining range)
Type K (NiCr-Ni)	-	±0.5 °C +0.5% of mv	±0.5 °C +0.5% of mv
Resolution	0.1 °C	0.1 °C	0.1 °C
Measurement rate			
Infrared	0.5 s	0.5 s	0,5 s
Type K (NiCr-Ni)	-	1.75 s	1.75 s
Meas. spot marking	1-point laser	2-point laser	2-point laser
Distance to measurement spot	10:1	12:1	30:1 (typical at a distance of 0.7 m to the measurement object 24 mm @ 700 mm (90%)

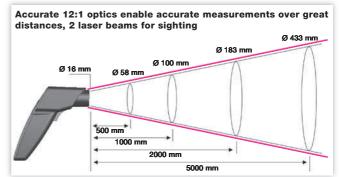


Optics

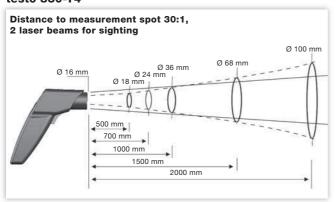
testo 830-T1



testo 830-T2



testo 830-T4



Accessories

Accessories for all testo 830 versions

Adhesive tape, e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature resistant to +250 °C	0554 0051
Leather case to protect measuring instrument, including belt holder	0516 8302
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025
ISO calibration certificate/temperature, infrared thermometer; calibration points +60°C; +120°C; +180°C	0520 0002

Accessories for testo 830-T2 / -T4

ISO calibration certificate/temperature, meas. instr. with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071	
ISO calibration certificate/temperature, for air/immersion probes, calibration point +60°C	0520 0063	
ISO calibration certificate/temperature, for air/immersion probes, calibration points -18°C; 0°C; +60°C		
ISO calibration certificate/temperature, meas. instr. with air/immersion probe; cal. points 0°C; +150°C; +300°C (Applies only to immersion/penetration probe 0602 2693)		