

Infrared temperature measuring instrument

testo 831 – Infrared thermometer for distance measurements



Non-contact measurement of surface temperature, ideally suitable for the food sector

2-point laser measurement point marker and 30:1 optics

Exact measurements even at greater distances

Large measuring range from -30 to +210 °C

Hold-function and display of min./max. values

Two adjustable alarm limit values

Also available as a set with the core thermometer testo 106

The testo 831 is an infrared thermometer for distance measurement. Thanks to its 30:1 optics, the measurement point diameter is only 3.6 cm at a distance of 1 m. This allows smaller objects such as yoghurt pots to be conveniently measured at a distance. Thanks to a 2-point laser marker, the diameter of the measurement point is displayed exactly, avoiding measurement errors. At two measurements per second, the testo 831 is so fast that scans of palettes or refrigerated shelving can be carried out.

Set testo 831 and testo 106

For certain temperature measurements in the food sector, it is necessary to carry out an additional core temperature measurement. For this purpose, Testo offers an economic set consisting of the testo 831 and the proven core thermometer testo 106.

Technical data / Accessories

testo 831


testo 831, infrared thermometer, 2-point laser sighting, 30:1 optics, belt holder, incl. Batteries and factory calibration certificate



Part no. 0560 8316

Set with testo 831 and testo 106

Set with testo 831 and testo 106: infrared thermometer, belt holder, incl. Batteries and factory calibration certificate. testo 106 penetration thermometer, incl. TopSafe, belt holder, incl. batteries



Part no. 0563 8315

Sensor type	Infrared
Meas. range	-30 to +210 °C
Accuracy ±1 digit	±1,5 °C or ±1,5% of mv (-20 to +210 °C) ± 2 °C or ±2% of mv (remaining range)
Resolution	0,1 °C
Spectral range	8 to 14 µm

General technical data	
Measurement rate	0,5 s
Distance to measurement spot	30:1
Emissivity	Adjustable 0.1 to 1.0
Oper. temp.	-20 to +50 °C
Storage temp.	-40 to +70 °C
Battery type	9V block battery
Battery life	15 h
Display	Illuminated LCD
Protection class	IP30
Dimensions	190 x 75 x 38 mm
Weight	200 g
Warranty	2 years

Accessories	Part no.
Accessories for measuring instrument	
ISO calibration certificate/temperature, infrared thermometers, calibration points -18°C, 0°C, +60°C	0520 0401
ISO calibration certificate temperature, Infrared thermometers, calibration points 0°C, +60°C	0520 0452
9V rech. battery for instrument, instead of battery	0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025

0981 9454/msp/A/03.2012

Subject to change without notice.



99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431

Visit us at www.TestEquipmentDepot.com