



# Infrared temperature measuring instrument

**testo 831 – Infrared thermometer for distance measurements**



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

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

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Exact measurements even at greater distances

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Large measuring range from -30 to +210 °C

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

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Two adjustable alarm limit values

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Also available as a set with the core thermometer testo 106

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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<br>±1 digit | ±1,5 °C or ±1,5% of mv (-20 to +210 °C )<br>± 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

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|--|-----------|--|
| 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 |  |