



## Testo Infrared Thermometers: 835-T1, 835-T2, 835-H1

### testo 835 – fast, accurate infrared measuring instruments for trade and industry

Take advantage of the benefits the testo 835 series has to offer, in virtually all sectors of trade and industry: e.g. monitoring wall temperature and humidity, inspecting air conditioning and ventilation systems, the maintenance of industrial systems or the quality control of industrially manufactured products.

Testo infrared measuring technology, which delivers first class results even at long distance, is particularly helpful when monitoring the temperature of objects that are small, moving, difficult to access or extremely hot. The many features increase the room for manoeuvre, for example in the building trade when carrying out surface moisture measurement via infrared, or in the metal, glass and ceramics industry when measuring temperatures up to 1500 °C. So you can be certain of having everything under control and of safeguarding your standards of quality at all times.

#### Details

- Measure safely and accurately even at high temperatures
- 4-point laser shows the exact measuring range, preventing incorrect measurements
- Safe measurements from a long distance, thanks to 50:1 optics
- Integrated emissivity measurement for absolute measuring reliability
- Patented surface moisture measurement (testo 835-H1)
- Convenient menu guidance with icons and joystick
- Measuring value and location memory, and data analysis on the PC

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#### testo 835-T1

Get started in the field of intelligent infrared measuring technology

Maximum safety and precision when measuring the temperature of smaller objects from a reasonable distance, e.g. monitoring wall temperature, troubleshooting in heating and air conditioning systems, or the quality control of industrially manufactured products.

Part no. 0560 8351



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#### testo 835-T2

The pro when it comes to high temperatures

Measure precise temperatures of up to 1500 °C from a safe distance thanks to its extended temperature measuring range, e.g. when monitoring product temperature in the glass, ceramics and metal industry.

Part no. 0560 8352



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#### testo 835-H1

Special-purpose instrument with integrated surface moisture measurement

Use its unique, patented infrared surface moisture measurement feature to detect the risk of mould in building fabrics early enough, measure humidity or check the dew point distance, for example.

Part no. 0560 8353



#### Disclaimer

The information contained herein is believed to be reliable. Tempcon Instrumentation Ltd is not responsible for any incorrect or incomplete information on this datasheet and the information or product may be changed without notice. Customers should obtain and verify the latest relevant information before placing orders for products.

## Technical Data

	testo 835-T1	testo 835-T2	testo 835-H1
<b>Sensor type Infrared</b>			
Optics	50:1 (regarding the distance of 2.0 m to measuring object typically) + opening diameter of the sensor (24 mm)		
Meas. spot marking	4 point laser		
Spectral range	8 to 14 µm		
Meas. range	-30 to +600 °C	-10 to +1500 °C	-30 to +600 °C
Accuracy ±1 digit	±2,5 °C (-30,0 to -20,1 °C ) ±1,5 °C (-20,0 to -0,1 °C ) ±1,0 °C (+0,0 to +99,9 °C ) ±1% of mv (remaining range )	±2,0 °C or ±1% of mv	±2,5 °C (-30,0 to -20,1 °C ) ±1,5 °C (-20,0 to -0,1 °C ) ±1,0 °C (+0,0 to +99,9 °C ) ±1% of mv (remaining range )
Resolution	0,1 °C	0,1 °C (-10,0 to +999,9 °C ) 1 °C (+1000,0 to +1500,0 °C )	0,1 °C
<b>Sensor type Type K (NiCr-Ni)</b>			
Meas. range	-50 to +600 °C	-50 to +1000 °C	-50 to +600 °C
Accuracy ±1 digit	±(-0.5 °C +0.5% of mv)		
Resolution	0.1 °C		
<b>Sensor type Testo humid. sensor, cap.</b>			
Meas. range	-		0 to 100 %RH
Accuracy ±1 digit	-		±2 %RH ±0.5 °C
Resolution	-		0.1 °C 0.1 %RH 0.1 °Ctd
<b>General technical data</b>			
Emissivity	0.10 to 1.00 (steps 0.01)		
Emissivity table	20 values storable		
Laser spot	On / off		
Memory	200 values storable		
Alarm (upper/lower limit)	IR temperature, TC temperature		
Alarm signal	audible, optical		
Oper. temp.	-20 to +50 °C		
Storage temp.	-30 to +50 °C		
Material/Housing	ABS + PC		
Dimensions	193 x 166 x 63 mm		
Weight	514 g		
Battery type	3 batteries Type AA (or USB operating with PC-Software)		
Battery life	25 h (typical 25°C without laser and backlight) 10 h (typical 25°C without backlight)		
Display	Dot matrix		
Auto-Off (disabled for continuous measurement and USB connection)	Backlight: 30 s Instrument: 120 s		
Standards	EN 61326-1:2006		