



## Intrinsically safe Non-Contact Temperature Meters Ex-MX2 / Ex-MX4 BT

For non-contact temperature measurement and monitoring of temperature processes in Ex-hazardous areas.

The Ex-MX2 and Ex-MX4 BT are the first choice for monitoring temperatures on objects which are difficult to access or for moving materials. The precise and robust measuring instruments measure the temperature without contact, even in Zone 0.

Operation could not be easier: sight on the object, press the measurement button and read the measured value. The sighted measuring area can be very clearly recognised using the 3-point measuring area marking, and the device can be adjusted and matched to the most diverse materials using the emissivity setting (in 0.01 increments). An exact measurement result is obtained in this way. The device has a ‚High‘ (the Ex-MX4 BT also a ‚Low‘) alarm function which signals the exceeding or falling below of a pre-set value threshold.

### Only Ex-MX4 BT:

The values determined can be stored internally (space for 100 measuring spots) and called up on the display afterwards by pressing a button.

Using the integrated Bluetooth function, the data can be transmitted to an intrinsically safe PDA directly in the ex-hazardous area and/or to a PC with integrated Bluetooth interface outside the ex-hazardous area.

The user can select settings such as minimum and maximum value display and difference and average value calculation using the menu buttons.

If the emissivity of a material is unknown, it can be determined using the included measuring sensor. However, this function is only allowed outside the ex-hazardous area!

### Ex-Data:

Ex-designation:

Ⓜ II 2 G EEx ia IIC T4

EC-Certificate of conformity:

TÜV 00 ATEX 1597 X

- quick response time: 250 ms
- 3-point measuring area
- measure from Zone I into Zone 0

### Only Ex-MX4 BT:

- data can be transmitted to a PC using the integrated Bluetooth interface
- up to 100 measured values can be stored

### Standard delivery:

- Ex-MX2 / Ex-MX4 BT
- batteries
- leather case
- wrist strap
- carrying case
- operating instructions
- software (only Ex-MX4 BT)
- temperature probe type K (only Ex-MX4 BT)



Ex-MX4 BT

### Optional accessories:

- calibration certificate

Technical data:	
Temperature range:	-30°C ... +900°C
Accuracy: (25 °C)	± 0.75% of the measured value or ± 0.75K, whichever is greater (± 2K for measurement objects below -5°C)
System failure: (at 25 °C ± 25 K)	< 0.05 K/K or < 0.05%/K, whichever is greater ± 1K for measurement objects below -5°C
Reproducibility:	± 0.5% of the measured value or ± 0.5K, whichever is greater ± 1K for measurement objects below -5°C
Response time:	250 ms
Display:	0.1°C (with temperature)
Emissivity:	0.10...1.50 (0.01 incremental)
Optical resolution:	60:1
Operating temperature:	0°C ... +50°C (max. +45°C with laser)
Storage temperature:	-20°C ... +50°C (without batteries)
Relative humidity:	10-95% r.H.
Power supply:	2 x LR6 (AA) in compliance with IEC; type approved
Dimensions:	200 x 170 x 50 mm
Weight:	Approximately 600 g
Spectral range:	8 - 14 µm
Laser:	Laser class 2
Bluetooth chip:	Class II chip (only Ex-MX4 BT)
Bluetooth power:	1 mW Tx power (only Ex-MX4 BT)
Bluetooth range:	up to 10 m (only Ex-MX4 BT)



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