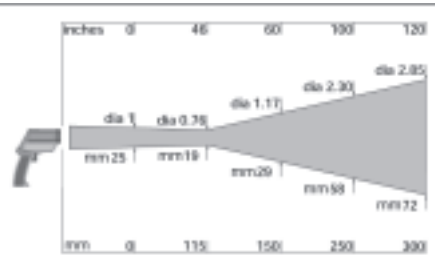


# Intrinsically-Safe Non-Contact Temperature Meter with Laser Sighting Ex-MX 2



Temperatures acquired without contact.

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

- Temperature range: from -30 to +900°C
- Quick response time: 250 ms
- Simple operation: trigger action
- Trend display: recall of previous 10 readings
- Reliable: laser circuitry provides measurement mark diameter
- Measure from Zone 1 into Zone 0

**Ex-data:**

Ex designation:  
Ⓔ II 2 G EEx ia IIC T4

EC-Certificate of Conformity:  
TÜV 00 ATEX 1597 X



The intrinsically-safe non-contact temperature meter Ex-MX 2 is a robust, highly reliable and easy to use instrument for measuring the temperature of objects that are difficult to access, are moving or are as material on conveyor belts. Operation could not be simpler: sight the object, press the trigger and read the temperature off the display immediately. The need to use the time consuming practice of focusing or calibration is now a thing of the past. The laser sighting allows exact areas - even on distant objects - to be pinpointed, so that high accuracy and an exact capture of a specific area can be guaranteed. The Emissivity-Factor of 0.1 to 1.5 can be variably adjusted by increments of 0.01. This enables high measuring accuracy with only the emitted radiation part of a body being calculated from a cluster of emitted, reflected and transmitted radiation. Constant information about the actual temperature as well as minimum and maximum temperature values are displayed along with a graphical trend of the previous 10 readings and also the condition of the battery.

The backlighted display enables readings to be taken even when used in dark environments and poor light conditions. The benefit of this simple yet robust device is that temperature monitoring as part of routine maintenance or manufacturing procedures can be easily carried out over a wide temperature range of -30 to +900°C, with an accuracy of  $\pm 1^\circ\text{C}$  (up to 100 °C) and  $\pm 1\%$  (above 100°C). The Ex-MX 2 now allows high precision, repeat accuracy of temperature monitoring tasks to be carried out safely within the Ex-hazardous area.

**Technical data:**

Temperature range:	-30°C ... +900°C	Ambient operating range:	0°C ... +50°C - with laser max. +45°C
Accuracy: (25±5°C)	-30°C ... -1°C ±2°C 0°C ... 99°C ±1°C 100°C ... 900°C ±1% ± 1°C of reading	Storage temperature:	-20°C ... +50°C
Repeatability:	±0.5% or ±1°C of reading whichever is greater	Relative humidity:	10-95% r.H. at up to 30°C
Response time:	(95%) 250 ms	Battery:	IEC LR6/AA respectively R6/AA
Indication elimination:	0.1°C with temperature	Dimensions:	200 x 170 x 50mm
Emissivity adjustment:	0.10 to 1.50 (0.01 incremental)	Weight:	450g
Display:	actual temperature minimum temperature maximum temperature graphical trend (previous 10 readings) warning symbol emissivity level battery condition	Spectral response:	8 to 14 μm
		Laser:	class 2 laser