

# Intrinsically-Safe Non-Contact Temperature Meter

## with Laser Sighting Ex-MX 2



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.

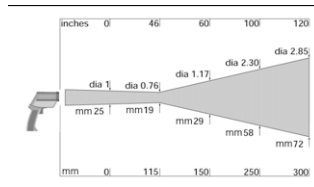
The laser sighting allows exact areas - even on distant objects - to be pinpointed, so that high accuracy and an exact capture of a specific area can be guaranteed.

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 backlit 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 -22 to +1652°F (-30°C.....+900°C) with an accuracy of  $\pm 1.8^\circ\text{F}$  ( $1^\circ\text{C}$ ) (up to 212°F /100°C) and  $\pm 1\%$  (above 212°F /100°C).

The Ex-MX 2 now allows high precision, repeat accuracy of temperature monitoring tasks to be carried out safely within the hazardous area.



Temperatures acquired without contact.

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

- Temperature range: from -22°F.....1652°F
- Quick response time: 250 ms
- Simple operation: trigger action
- Trend display: recall of previous 10 readings
- Reliable: laser circuitry provides measurement mark diameter
- Measurements from Zone 1 to Zone 0

**Ex-data:**

Ex designation:  
 Ⓜ II 2 G EEx ia IICT4

EC-Certificate of Conformity:  
 TÜV 00 ATEX 1597 X



**Technical data:**

Temperature range:	-22°F ... +1652°F	Ambient operating range:	32°F ... +122°F
Accuracy:	-22°F ... 30.2°F $\pm 3.6^\circ\text{F}$		- with laser max. +113°F
(68°F.....86°F)	32°F... 210.2°F $\pm 1.8^\circ\text{F}$	Storage temp.:	-4°F ... +113°F
Repeatability:	212°F ... 1652°F $\pm 1\%$	Relative humidity:	10-95% r.H. at up to 86°F
	$\pm 1.8^\circ\text{F}$ of reading	Battery:	IEC LR6/AA
Response time:	$\pm 0.5\%$ or $\pm 1.8^\circ\text{F}$	respectively R6/AA	
(95%)	of reading whichever is greater	Dimensions:	7.8" x 6.6" x 2"
Indication elimination:	250 ms	Weight:	16 oz
	with temperature	Spectral response:	8 to 14 $\mu\text{m}$
Emissivity adjustment:	0.2°F (0.1°C)	Laser:	class 2 laser
	(0.01 incremental)		
Display:	actual temperature		
	minimum temperature		
	maximum temperature		
	graphical trend		
	(previous 10 readings)		
	warning symbol		
	emissivity level		
	battery condition		