



Intrinsically-Safe Non-Contact Temperature Meter Ex-MP4 a

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

The intrinsically-safe non-contact temperature measuring equipment Ex-MP4 a is a robust yet exceedingly handy and easy to use instrument for temperature measuring in ex-hazardous areas.

The benefits of non-contact-measurement

- increased safety when determining the temperature of fast moving objects.
- no antennas mean that frictional heat cannot affect the measurement.
- no mark or blemish is left on the object being measured.

Response time

 fast and accurate. Pyrometers respond to emitted energy and are around 20 to 1000 times quicker than traditional direct contact thermometers.

Low maintenance and non invasive

- the temperature of the object being measured is not affected by the procedure.
 non contact of the detector means no
- wear and tear.
- no fixing or fastening points required on either the object or equipment.

Hard to reach objects and moving materials

- the optics of the pyrometer are aimed at the object to be measured and with the laser sighting it is possible for both small and distant objects to be targeted.
- hazardous and aggresive materials can be safely measured - and without fear of damaging the equipment.
- the compact size of the pyrometer allows it to be used in even the most awkward positions, with only a clear line of sight to the target area being required.
- with direct contact measurement, poor heat conduction or heat capacity of the object can prevent insufficient heat flow to a measuring device.

- extended measuring range: to +400 °C
- high accuracy
- simple operation
- quick response time
- laser target sighting
- Measure from Zone I into Zone 0

Standard delivery:

- Ex-MP4 a
- battery
- leather handle
- wrist strap
- operating instructions

Optional accessories:

• calibration certificate

Ex-data: Ex designation: © II 2 G Ex ia op is IIC T4

EC-Certificate of conformity: EPS 10 ATEX 1 242 X

Tashnisal data



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Temperature range:	-18 °C+400 °C
Display resolution:	0.2 °C
Target sighting:	Laser (class 2)
Accuracy: (at 23°C)	-18 °C1 °C \pm 3 °C -1 °C +400 °C \pm 2 °C or \pm 2 % of reading - whichever is greater,
Repeatability:	\pm 2 % of reading or \pm 2 °C - whichever is greater
Response time:	500 msec
Emissivity:	preset 0.95
Optics D/L:	= 1/8
Spectral response:	7-18 μm
Operating temperature:	0 °C+50 °C
Storage temperature range: (without battery)	-20 °C+65 °C
Relative humidity:	10 to 95% r. H. non-condensing at up to 30 °C
Power supply:	I × IEC 6LR61, type approved
Dimensions:	152 x 101 x 38 mm
Weight:	~ 200 g