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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 1 into Zone 0

Standard delivery:
- Ex-MP4 a
- battery
- leather handle
- wrist strap
- operating instructions

Optional accessories:
- calibration certificate

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

Technical data:	
Temperature range:	-18 °C…+400 °C
Display resolution:	0.2 °C
Target sighting:	Laser (class 2)
Accuracy: (at 23°C)	-18 °C … -1 °C ±3 °C -1 °C … +400 °C ± 2 °C or ± 2 % of reading - whichever is greater,
Repeatability:	± 2 % of reading or ± 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:	1x IEC 6LR61, type approved
Dimensions:	152 x 101 x 38 mm
Weight:	~ 200 g

WEEE-Reg.-Nr.: DE 934 99306
DB Ex-MP4 a / 03/10 Subject to change without notice!