



Intrinsically-Safe Non-Contact Temperature Meter with Laser Sighting Ex-MP 4



The intrinsically-safe non-contact temperature measuring equipment Ex-MP 4 is a robust yet exceedingly handy and easy to use instrument for temperature measuring in 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.

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

- high accuracy
- simple operation
- quick response time
- laser target sighting
- Measure from Zone I into Zone 0

Ex-data:

Ex designation:
Ex II 2 G EEx ia IIC T4

EC-Certificate of Conformity:
TÜV 00 ATEX 1580 X

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 aggressive 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.

Technical data:

Temperature range:	from -18°C to +260°C (0°F to 500°F)	Emissivity:	preset 0.95
Display resolution:	0.5°C (1.0 F)	Optics D/L:	=1/6
Target sighting:	Laser (class 2)	Spectral response:	7 to 18 µm
Accuracy: (at 23°C)	-18°C ... -1°C ±3°C 0°C ... 99°C ±2°C 100°C ... 260°C ±2% ± 2°C or ± 2% of reading	Ambient operating range:	0°C...+50°C
Repeatability:	± 2% of reading or ± 2°C	Storage temperature range:	-20°C...+65°C (without battery)
Response time:	500 msec	Relative humidity:	10 to 95% r.H. non-condensing at up to 30 deg C
		Power supply:	9V alkaline battery type IEC 6LR61
		Dimensions:	152 x 101 x 38mm
		Weight:	~ 200 g