



Intrinsically safe infrared thermometer

Ex-MP4 a



- Easily measure hard-to-reach objects
- Measurements of moving materials
- Measurements from Zone 1 into Zone 0
- Precise measurements with accuracy

Ex-MP4 a, Non-Contact Temperature Meter for Zone 1



Technical Data

General specifications

Measurement range	
Temperature	-18 °C ... 400 °C
Laser class	2

Indicators/operating means

Display	
Resolution	0.2 °C

Electrical specifications

Battery type	1 x 9V alkaline battery according to IEC 6LR61, type-tested
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Function and system design

Distance to measuring spot size	8:1 (D:S)
Measuring spot marking	Laser
Infrared range	7 ... 18 µm
Emissivity adjustment	fixed at 0.95

Measurement accuracy

Accuracy	-18 °C ... -1 °C ±3 °C, -1 °C ... +400 °C ±2 % or ±2 °C of reading - whichever is greater
Response time	500 ms
Repeat accuracy	±2 % of reading or ±2 °C - whichever is greater

Ambient conditions

Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-20 ... 65 °C (-4 ... 149 °F) , without batteries
Relative humidity	10-95% at 30 °C (non-condensing)

Mechanical specifications

Mass	approx. 200 g
Dimensions	
W x H x D	152 mm x 101 mm x 38 mm

Data for application in connection with hazardous areas

EU-type examination certificate	EPS 10 ATEX 1 242 X
Marking	Ⓔ II 2G Ex ia op is IIC T4 Gb

International approvals

UKCA approval	
UKCA certificate	CML 21UKEX21055X
UKCA marking	II 2G Ex ia op is IIC T4 Gb

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

General information	
Scope of delivery	Ex-MP4 a Battery Leather grip Hand strap Documentation

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