

Application

The new intrinsically safe ThermoPen is an accurate, durable pocket size thermometer with an integrated surface probe, which provides temperature readings in °C or °F in hazardous areas. The new TMTP 200Ex is designed for industries where explosive hazardous environments are present, such as petrochemical and mining, as well as industries where combustible dust(s) are present.

Description

The Intrinsically Safe ThermoPen is available in one version with selectable Celsius or Fahrenheit indication. It measures temperature ranging from -40 °C (-40 °F) up to 200 °C (392 °F) and is equipped with a memory function for holding the highest measured temperature. The thermometer will automatically switch off after 5 minutes. The TMTP 200Ex is supplied complete with battery and operating instructions. The probe tip has a "heavy-duty construction".

Ex certification

The TMTP 200Ex has been especially designed and approved for use in high-risk areas and carries ATEX type approval. It is suitable for use in:

- Underground as well as surface installations sections of mines endangered by firedamp and/or combustible dust, Equipment-group I, category M 1 (mines)
- Areas in which explosive atmospheres caused by mixtures of air and gasses, vapours or mists or by air/dust mixtures are continuously present, for long periods or frequently, Equipment-group II, category 1 (zone 0 and 20).

Certified confirming to ATEX: EC type examination ISSEP02ATEX054X

Approvals

Mining I M1 EEx ia I
Other areas II 1GD EEx ia IIC T4 IP 65

Safety: X marking

- Only use Duracell Procell batteries (Duracell PC2400).
- Some surfaces such as the label don't answer to clause 4.4 of EN 50284:1999 Standard. All precautions shall be taken when using the ThermoPen in a category I (zone 0), group IIC zone.
- Avoid static charging of keyboard and data sticker.

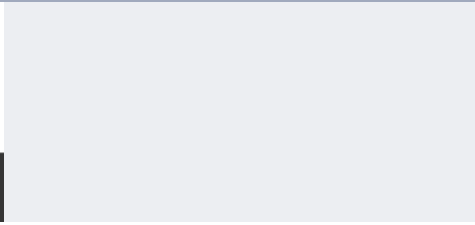


Technical data

Designation	TMTP 200Ex
Description	Intrinsically safe general-purpose contact thermometer
Colour	Black
Temperature range	-40 to 200 °C (-40 to 392 °F)
Electronics accuracy	≤ 0,5 °C (≤ 0.9 °F)
Display resolution	1 °C/°F
Probe	Integrated K-Type
Dimensions	165 x 50 x 21 mm (6.5 x 2 x 0.8 in)
Weight	95 g (3.4 oz)
Battery	3 x AAA (LR03) Only Duracell PC2400/MN2400 batteries are allowed in Ex areas
Battery lifetime	2000 hours (average)
Switch off	Button or automatic after 5 minutes
Display indications	Temperature, °C or °F, maximum temperature, out of range, defective probe, low battery
IP rate	IP 65
Drop resistance	1 m (3.2 ft)
EC Type examination	ISSEP02ATEX054X
Ex classification	I M1 EEx ia I II 1GD EEx ia IIC T4 IP65
Equipment groups	I, category M1 II, category 1, zone 0 and 20
EC directive	94/9/EC
EN standards	EN 50014: 1997 +A1 and A2: 1999 EN 50020: 1994 EN 50281-1-1: 1998 EN 50284: 1999
X marking	Only use Duracell Procell batteries Duracell PC2400. Some surfaces such as the label don't answer to clause 4.4 of EN 50284:1999 Standard. All precautions shall be taken when using the ThermoPen in a category I (zone 0), group IIC zone. Avoid static charging of keyboard and data sticker.
Maximum surface temperature	105 °C
Display indications	



Out of range



Broken probe connection



Low battery

