



250 SERIES

OLED Display working temperature - 40°C

Cable replacement without recalibration

Cable length up to 15 meters



API MPMS Chapter 7

Low battery condition indication

PORTABLE ELECTRONIC THERMOMETER

PET-250.1

IN PROCESS TO EXCELLENCE

Measuring range:

Sensor temperature range	-40... +200°C (-40... +392°F)
Product temperature range	-40... +80°C (-40... +176°F)
Ambient temperature range	-40... +50°C (-40... +122°F)

Accuracy:

Temperature (-40 to +80°C)	±0.1°C (±0.2°F)
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Repeatability (exceed API MPMS Chapter 7):

Temperature (-40°C to +50°C)	±0.05°C (±0.2°F)
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Resolution:

Temperature	0.1°C(0.2°F) or 0.01°C (0.02°F)
Temperature scale:	°C or °F selectable

Cable

Material	FEP Teflon jacket or PFA
Cable length	7.6 m /25 ft or 15.2 m /50 ft

Sensor:

Temperature sensor	PT-1000 element Class A
Material	Stainless steel SS 304

Electronic box:

Material	Antistatic Polyamide base
Power supply	NiMH 3.6V-2500 mAh rechargeable battery
Operating time without charging	Appr. 40 hours

Dimensions:

Controller	230 x 145 x 95 mm (9.0 x 5.7 x 3.7")
Sensor	140 x ø22 mm (5.5 x ø0.9")

Intrinsically safe:

Controller	ATEX II (2G) EEx ib [ia] IIB T4
Sensor	ATEX II 1G EEx ia IIB T4
Weather rating	IP 67
Data handling	OLED Display (2x8) with backlight Local memory up to 1000 results

Advantages

- Multi-parameters save :
 - temperature
 - depth
 - date
 - time
- Fast measurements without sampling
- Economical and easy to operate
- Cable 4-cores technology
- Crash-proof design
- Temperature Profile

Applications

- Gasoline fuel
- Diesel fuel
- Crude oils
- Lubricants etc.
- Custody Transfers
- Inventory
- Tank
- Recommended Operation: API 7, Intl. Safety Guide For Oil Tankers and Terminals

Certifications:

Portable Electronic Thermometer **PET-250.1** is designed for an in-field temperature measurement of liquids directly in-tank. The machine has a wide working capability in temperature ranges from -40 °C, up to +80°C (FEP Teflon cable working temperature range). **PET-250.1** provides accurate results of ±0.1°C. **PET-250.1** is designed for use in hazardous environments with outstanding characteristics regarding safety, ease of operation, accuracy, reliability and cost efficient maintenance. **PET-250.1** can store its measurement results and depth of sensor immersion within the memory for up to 1000 entries.

PET-250.1 uses 4-core technology, which eliminates the necessity of cable conductivity changes from temperature compensation, unlike in 2-core temperature meters. Different parts of the cable have different temperature at the same time, and accordingly different conductivity, which is not fully compensated. Operator can provide cable replacement without device recalibration. Overall the 4-core technology and **PET-250.1** meter eliminates the above-mentioned problems and will provide you with the true results of temperature in any climatic conditions and at any sensor immersion depth.

For more information please visit www.lemis-process.com



USA
LEMIS USA, Inc.
 2121 Golden Road, Suite 2A
 The Woodlands
 TX 77380, USA
 Ph.: +1 281 465 8441
 Fax: +1 281 465 8224

EUROPE
AS LEMIS Baltic
 26 Ganību dambis
 Rīga, LV-1005
 Latvia, EU
 Ph.: +371 6738 3223
 Fax: +371 6738 3270

INDIA
LEMIS India PVT LTD
 603, Platinum Technopark, Plot-17/18
 Sector-30A, Vashi
 Vashi - Navi Mumbai. 400705, INDIA
 Ph.: +91 22 6721 5655
 Fax: +91 22 6794 2666

E-mail: info@lemis-process.com