



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) |
|----------------------------|-----------------|

Repeatability (exceed API MPMS Chapter 7):

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

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



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