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Find the *GE / Panametrics PM880* at our website: *Click HERE*

GE
Sensing

Applications

This rugged, intrinsically safe, portable hygrometer measures moisture in gases and non-aqueous liquids. It is used in conjunction with Moisture Image® Series (MIS), TF and M Series moisture probes for applications including:

- Natural gas
- Chemical and petrochemical gases
- Non-aqueous liquid applications
- Air separation plants
- Tanker preparation and filling
- Industrial gases
- Gas cylinder preparation and filling
- Shipboard applications
- SF_6 circuit breakers
- Furnace gases/heat treating
- General plant/facility maintenance

Features

- Hand-held portable design
- Intrinsically safe
- IP67 rated
- Large graphic display
- Internal data logger
- IrDA® communication with PC
- Stores up to 60 log/site files
- Simple programming via graphic user interface
- Compatible with all GE moisture probes
- Lightweight hand-held sample system
- Convenient carrying bag to store hygrometer and all accessories

PM880

Panametrics Portable Hygrometer

PM880 is a Panametrics product. Panametrics has joined other GE high-technology sensing businesses under a new name– GE Industrial, Sensing.



GE
Sensing

The PM880 hygrometer is a complete, intrinsically safe, portable system with options and accessories to meet all industrial moisture measurement needs.

This hygrometer is small, lightweight, and easy to use. The large LCD displays moisture readings in dew point (°C or °F), ppm_V, ppm_W, lb/MMSCF (natural gas), and a variety of other unit options. Data can be viewed in alphanumeric or graphic formats. A rechargeable battery pack and battery charger make this the ideal go-anywhere moisture analyzer.

The PM880 comes in a soft carrying case with zippered compartments, a handle, and a shoulder strap. The case accommodates the PM880, a sample system, flexible hosing, probes with protective covers, an Moisture Image Series probe electronics module, an operating manual, a battery pack, a battery charger, and probe cables.



The PM880's large LCD displays moisture readings in dew point (°C or °F), ppm_V, ppm_W, lb/MMSCF (natural gas), and a variety of other unit options in graphic or alphanumeric formats.

PM880 Accessories

1 Portable, infrared thermal printer and battery charger (non-hazardous areas only).

2 Zippered soft carrying case

3 Flexible braided–stainless steel hose

4 MIS probe electronics module

5 TF moisture probe

6 M Series moisture probe with probe cable

7 Portable sample system

8 PC infrared adapter

9 PM880 battery and charger



GE
Sensing

PM880 Specifications

Overall

Channels
Single channel

Dimensions
- Size: 9.4 x 5.5 x 1.5 in (238 x 138 x 38 mm)
- Weight, electronics: 2.5 lb (1.13 kg)
- Weight, sample system: 4 lb (1.8 kg)

Enclosure
Type 4X, IP67

Electronics

Internal Battery
Rechargeable. PM880 batteries can be installed or removed in hazardous areas. Batteries must be recharged in non-hazardous areas only.

Battery Life
15 to 24 hours depending on type of probe; battery life reduced when operating below 32°F (0°C)

Battery Charger
- Switchable input: 115 or 230 VAC, 50/60 Hz
- Requires approximately three hours for full battery recharge

Memory
FLASH memory

Operating Temperature
14° to 122°F (–10° to 50°C)
To ensure maximum battery life, GE does not recommend storing at temperatures exceeding 95°F (35°C) for longer than one month.

Keypad
25-key, rubberized, tactile membrane

Display
240 x 200 pixel, graphic backlit LCD display

Printer/Terminal Output
Infrared communication port

Cables
Cable type dependent on probe type: M Series, TF Series, or Moisture Image Series. LEMO®-to-bayonet connector

Cable Length
- Standard: 10 ft (3 m)
- Optional: Consult GE for other lengths

Hazardous Area Classification
Intrinsic-safety certification: Baseefa (2001) Ltd.
Ex II 1 G EEx ia IIC T3 (–20°C ≤ T_a ≤ +50°C)
Baseefa02ATEX0191; and CSA C US Class I, Division 1, Groups A,B,C&D, Type 6

European Compliance
Complies with EMC Directive 89/336/EEC, ATEX Directive 94/9/EC

Operational

Site Parameter Programming
Menu-driven, graphic, operator interface uses keypad and soft-function keys. Online help functions. Memory storage for saving site parameters.

Data Logging
Memory capacity to log over 100,000 moisture data points. Programmable keypad for log units, update times, and start and stop times.

Display Functions
Displays measurements and logged data in alphanumeric or graphic format. Language options: Dutch, English, French, German, Italian, Portuguese, Russian, Spanish

Display Units
- Moisture: DP temperature, ppm_V, ppm_W, % RH, lb/MMSCF, and others
- Temperature: °F, °C, and °K
- Pressure: psig, bar, kPa (gauge), kg/cm^2 (gauge), and others

Moisture Measurement

Compatibility
Compatible with all GE aluminum oxide moisture probes: M Series, TF Series, and Moisture Image Series. Each probe type requires a different type of I/O cable.

GE
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PM880 Specifications

Calibration
GE moisture sensors are computer-calibrated to National Institute of Standards and Technology (NIST) traceable moisture concentrations.

Dew/Frost Point Temperature

Overall Calibration Range Capability
-166°F to 140°F (–110°C to 60°C)

Calibration Range Options
- Standard: 68°F to 176°F (20° to –80°C) with data to -166°F (–110°C)
- Ultralow: -58°F to -166°F (–50°C to –110°C)
- Extended high: 140°F to -112°F (60°C to –80°C) with data to -166°F (–110°C)

Accuracy
- ±1°F (±2°C) from 140°F to -85°F (60° to –65°C)
- ±2°F (±3°C) from -85°F to -166°F (–65°C to –110°C)

Repeatability
- ±0.3°F (±0.5°C) from 140°F to 149°F (60°C to –65°C)
- ±0.5°F (±1°C) from -85°F to -166°F (–65°C to –110°C)

Operating Pressure
5 µ of Hg to 5000 psig (345 bar) limited by pressure sensor—see pressure measurement specifications

Temperature Measurement

Optional thermistor available for all GE moisture probes

Range
–22° to 158°F (–30° to 70°C)

Accuracy
±0.3°F (±0.5°C) at -22°F (–30°C)

Pressure Measurement

Optional pressure sensor available for TF Series and Moisture Image Series moisture probes

Ranges
- 30 to 300 psig (3 to 21 bar)
- 50 to 500 psig (4 to 35 bar)
- 100 to 1000 psig (7 to 69 bar)
- 300 to 3000 psig (21 to 207 bar)
- 500 to 5000 psig (35 to 345 bar)

Accuracy
±1% at full scale

Proof Pressure
Three times span of available range up to maximum 7500 psig (518 bar)

Sample System

The SS880A standard sample system comprises an inlet needle valve, a built-in coalescing filter and sample cell with a bypass needle valve and venting tube, a pressure gauge (various ranges), and an outlet needle valve with venting tube.

Wetted Parts
316 SS

Operating Pressure
Configurations available for 300; 500; 1000; 2000; or 3000 psig (21, 35, 69, 207, or 345 bar), dependent on pressure gauge)

Maximum Pressure Rating
- Standard: 3000 psig (207 bar)
- Optional: 5000 psig (345 bar)

Other Options
- Inlet pressure regulator, 0 to 500 psig (1 to 345 bar) outlet
- Armored flowmeter, 1.3 to 13 SCFH
- 10-ft (3-m), flexible, polytetrafluoroethylene-lined, braided–stainless steel hose with 1/4-inch tube connections. Not recommended for dew point temperatures below –103°F (–75°C).

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