



# 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<sub>v</sub>, ppm<sub>w</sub>, 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.



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## 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





# 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).