DewPro® MMY31
Dew point transmitter

The DewPro MMY31 measures dew point or ppmv in gases. It is a cost-effective, loop-powered dew point transmitter designed for “in-line” installation where trace moisture measurement is required. The planar aluminum oxide sensor provides excellent corrosion resistance, longer calibration stability, quick response times, and an exceptionally low temperature coefficient.

The DewPro MMY31 mounts directly in-line in your process gas, where a bypass installation is not appropriate. It is easily installed via a variety of adjustable insertion length compression fittings. The optional integrated display with user interface provides full programming and diagnostic capability.

Applications include glove boxes, environmental chambers, test chambers, and other locations where direct insertion is required.

Features
• Loop-powered, 4 to 20 mA transmitter
• Fast response planar aluminum oxide sensor
• Trouble-free indoor or outdoor mounting
• Field validation with the MMY245 moisture analyzer
• Microcontroller electronics in Type 4X/IP67 enclosure

Options
• Integrated display with user interface
• FM approved intrinsically safe/explosion-proof, Class I,II,III, Division 1 and 2, Groups A,B,C,D,E,F&G hazardous (classified) locations
• English or metric fittings
• External display available with loop-power supply and alarm contacts

Panametrics
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DewPro MMY31 specifications

**Sensing element**
Planar aluminum oxide sensor

**Measurement range**
-130°F to 50°F (−90°C to 10°C) dew point temperature; 0 to 10 ppmv, 0 to 1000 ppmv (fully adjustable with integral display)

**Recommended recalibration cycle**
12 months, depending on the application

**Calibration accuracy**
±3.6°F (±2°C) dew point at 77°F (25°C)

**Maximum sensor relative humidity**
50% at dew point temperatures >32°F (>0°C)

**Operating temperature range**
Process: −40°F to 122°F (−40°C to 50°C)
Electronics: −40°F to 185°F (−40°C to 85°C)

**Element filter**
100 micron, sintered stainless steel

**Standard operating pressure**
0 to 1750 psig (0 to 120 bar, 12 MPa)

**Helium leak-rate**
<10⁻⁶ mbar/s

**Output**
4 to 20 mA loop-powered, 16 μA resolution

**Electronics**
Microcontroller operated

**Optional display**
Four-digit numeric display with bar graph and matrix position indication; four user interface keys for unit selections, output adjustments and ranging

**Power supply**
24 VDC nominal, 12 to 30 VDC

**Protection**
Type 4X/IP67

**Weight**
3.3 lb (1.5 kg)

**Probe tube**
316 stainless steel, 1/2 in. (12.7 mm) diameter, insertion length 2 in. (50 mm) to 3.5 in. (90 mm)

**Typical probe mounting**

**European compliance**

**Optional certifications/approvals**
- FM IS Class I,II,III, Division I, Groups A,B,C,D,E,F,G, T5
- FM XP-IS Class I, Division I, Groups A,B,C&D, T5
- FM NI Class I, Division 2, Groups A,B,C&D, T4 A DIP Class II,III, Division 1, Groups E,F&G, T5
- ATEX II 3G EEx nA IIC T4
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With a reach that extends across the globe, Panametrics’ critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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