DewPro® MMY30

Dew point transmitter

The DewPro MMY30 is a loop-powered transmitter with 4 to 20 mA output. The DewPro MMY30 is specifically designed to measure dew point or ppm in gases at line pressure or atmospheric pressure. The planar aluminum oxide sensor provides excellent corrosion resistance, longer calibration stability, quick response times, and an exceptionally low temperature coefficient. The optional integrated display with user interface provides full programming and diagnostic capability.

The DewPro MMY30 features an integral flow cell for filtration and flow regulation making it ideal for monitoring the moisture content in various process environments. Several options are available for the process connection allowing easy installation of the transmitter. Applications include desiccant air dryers, pipeline natural gas and industrial gases.

Features
- Loop-powered, 4 to 20 mA transmitter
- Fast response planar aluminum oxide sensor
- Integral filtering and flow regulation
- 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-powered supply and alarm contacts

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DewPro MMY30 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, 0 to 100, 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 temperature > 32°F (0°C)

**Operating and storage temperature range**
-40°F to 122°F (−40°C to 50°C)

**Air bleed off at 100 psig (7 bar)**
Approximately 1 SCFH (28 sl/h)

**Maximum operating pressure**
450 psig (31 bar, 3.1 MPa)

**Helium leak-rate**
<10⁻⁶ mbar l/s

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

**Flow block**
316 stainless steel with 1/2 in MNPT or G 1/2 thread (DIN ISO 228)

**Wrench width for flow block**
1-5/8 in (42 mm)

**Electronics**
Microcontroller operated

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**DewPro MMY30 with display option**

**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 range

**Protection**
Type 4X/IP67

**Weight**
4.4 lb (2 kg)

**European compliance**

**Optional certifications/approvals**
- FM IS Class I,II,III, Division 1, Groups A,B,C,D,E,F&G, T5
- FM XP-IS Class I, Division 1, Groups A,B,C&D, T5
- FM NI Class I, Division 2, Groups A,B,C&D, T4A 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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