



DewPro[®] MMR30

Moisture transmitter

The DewPro MMR30 is a compact, mid-range moisture transmitter designed specifically for refrigeration dryer manufacturers and users. The DewPro MMR30 measures dew point at line pressure or atmospheric pressure and installs easily on a dryer outlet header.

The DewPro MMR30 uses a proven polymer capacitive sensor to provide a measurement range of 5°F to 185°F (-15°C to 85°C) with ±1.8°F (±1.0°C) accuracy. The optional integrated display with user interface provides full programming and diagnostic capability.

Features

- Loop-powered, 4 to 20 mA transmitter
- Proven polymer capacitive sensor for fast response and calibration stability
- Integral filtering and flow regulation
- Trouble-free indoor or outdoor mounting
- Microcontroller electronics in Type 4X/IP67 enclosure

Options

- Integral display with user interface
- English or metric fittings
- External display available with loop-powered supply and alarm contacts
- Power supply
- Wall mount kit

Specifications

Sensing element

Silicon-based polymer, capacitance principle, IC electronics

Dew point range

5°F to 185°F (-15°C to 85°C)

Dew point accuracy

±1.8°F (±1°C) above 32°F (0°C) dew point @ 25°C

Operating temperature range

Process: 5°F to 185°F (-15°C to 85°C)

Electronics: -40°F to 185°F (-40°C to 85°C)

Maximum operating pressure

250 psia (17 bar)

Inlet filter: 2 micron sintered stainless steel

Air bleed off at 100 psig (7 bar)

Approximately 1 SCHF (28 sl/h)

Output

Loop current 4 to 20 mA; 16 :A resolution

Flow block

316 stainless steel with 1/2 in NPT-M or G 1/2 thread; (DIN ISO 228) and gasket seal

Wrench width for flow block

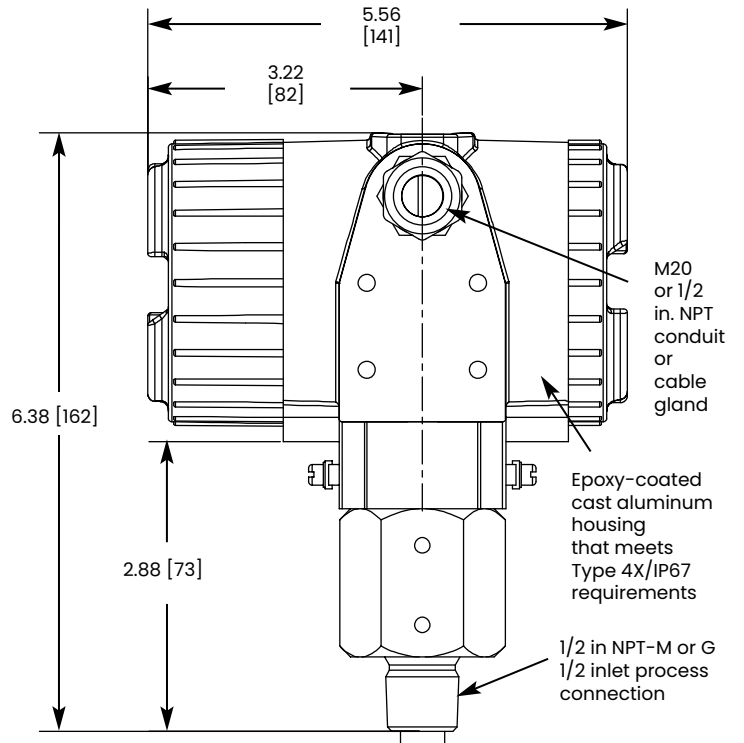
1-5/8 in (42 mm)

Electronics

Microcontroller operated

Hardware selectabel units

Dew point temperature in °F or °C



DewPro MMR30 with optional display

Supply power

24 VDC nominal, tolerance 12 to 30 VDC

Optional display

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

Protection

Type 4X/IP67

Weight

4.4 lb (2 kg)

European compliance

Complies with EMC Directive 89/336/EEC and PED 97/23/EC for DN<25

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