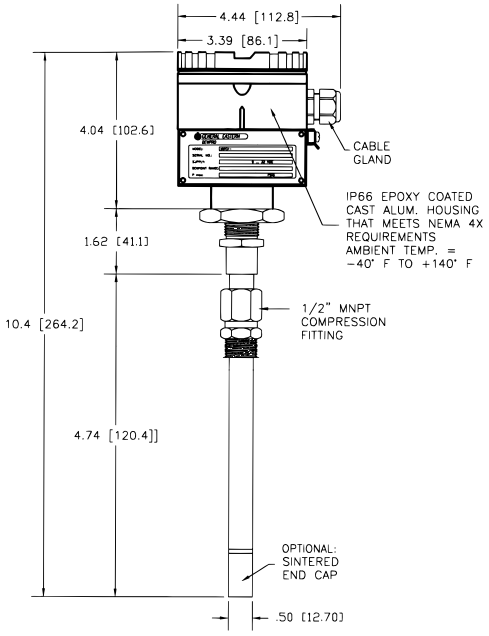
DewPro® MMY 31

The DewPro® MMY 31 measures dew point or ppm_V in dry gases. It is a cost-effective, loop-powered dew point transmitter designed for "in-line" installation where a trace moisture measurement is required, but display, alarms, and other features are not needed. The planar capacitive aluminum oxide sensor provides excellent corrosion resistance, longer calibration stability, quick response times, and an exceptionally low temperature coefficient.

The MMY 31 mounts directly in-line for applications such as glove boxes, where a bypass is not appropriate. It is easily installed via a 1/2" MNPT or G 1/2 adjustable insertion length compression fitting. Applications include glove boxes, environmental chambers, and high altitude testing.

Features:

- Simple, 4 - 20 mA two-wire connection
- Fast response planar sensor
- Trouble-free indoor or outdoor mounting
- Field calibration with the optional MMY245
- Microprocessor in NEMA 4X (IP66) enclosure
- FM approved (Class 1) - Division 2 standard



Options:

- English or Metric fittings
- FM approved Class 1, Division 1
- On-board display and user interface
- External displays available with loop-power supplies and/or alarm contacts

Ordering Information: See page 10

Dimensions/Specifications

Sensing Element:	Planar sensor, aluminum oxide capacitance principle
Measurement Range:	-90 °C to +10°C (-130°F to +50°F) dew point temperature; 0 to 10, 0 to 1000 ppm_V (fully adjustable with integral display)
Recommended Recalibration Cycle:	12 months, depending on application
Calibration Accuracy:	±2°C (3.6°F) dew point over the entire range
Repeatability:	±1°C (±1.8°F)
Maximum Sensor Relative Humidity:	50% at dew point temperatures > 0°C (32°F)
Temperature Coefficient:	ΔTd/ΔT < 0.2°C/°C (<0.2°F/°F)
Operating Temperature:	-40°C to +60°C (-40°F to +140°F)
Storage Temperature:	-40°C to + 60°C (-40°F to + 140°F)
Sintered Filter:	100 micron
Standard Operating Pressure:	0 - 1750 psig (0 - 120 bar)
Helium Leak-rate:	< 10^{-6} mbar l/s
Output:	4 to 20 mA, 16 uA resolution
Electronics:	Microprocessor-controlled
Power supply:	24 V DC nominal, 12 to 32 V DC tolerance
Protection:	NEMA 4X (1P67)
Weight :	3.2 lbs (1.5 kg)
Probe Tube:	316 stainless steel, 1/2" (12.7 mm) diameter, insertion length 2" (50 mm) to 3.5" (90 mm)
Typical Probe Mounting:	1/2" tube x 1/2" MNPT or 1/2" tube x G 1/2 compression fitting Others available, consult factory