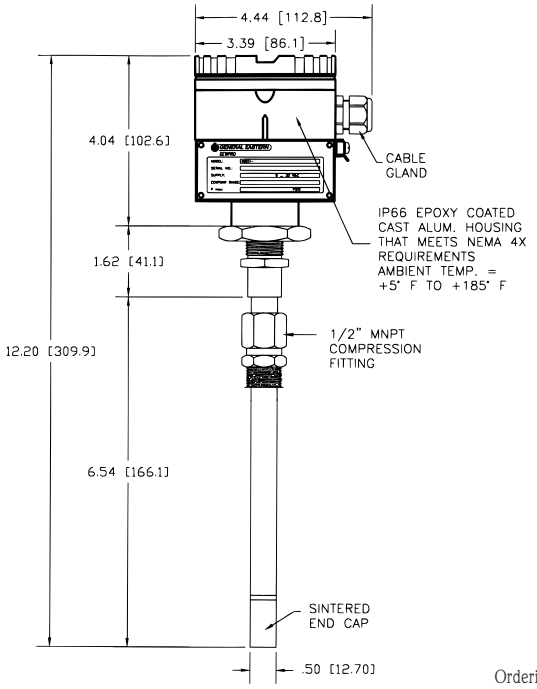
DewPro® MMR 31

The MMR 31 Loop Powered Moisture Analyzer represents a simple, cost-effective solution for mid-range moisture measurements. Whether you need to improve product economy, increase product quality, maintain comfort levels, or preserve the properties of stored foods or other supplies, the MMR 31 allows application flexibility. The MMR 31 can also be quickly recalibrated in the field using salt bottles. A second, isolated loop for temperature is optional. (U.S. patent # 5,677,476)

Features:

- Economical, versatile analyzer measures relative humidity, dew point, absolute humidity, mixing ratio
- Proven polymer capacitive sensor for fast response and calibration stability
- 0 to 100% RH or dew point measurement range of -15˚C to +85˚C
- Simple, two-wire connection (4 to 20 mA)
- Easy mounting with standard compression fittings
- Simple field recalibration with salt bottles
- NEMA 4X (IP67) Enclosure



Options:

- Wall mount kit
- Integral Display with user interface
- English or Metric fittings
- DewPro Communication Software
- Second isolated loop (patented) for temperature
- External display available with loop-power supply and alarm contacts

Ordering Information: See page 10

Specifications

Sensing Element:	Silicon-based polymer, capacitance principle, IC electronics
RH Range:	0 to 100%
RH Accuracy:	±2% in the range of 0% to 90% ±3% in the range of 90% to 100%
Dew Point Range:	-15°C to +85°C (+5°F to +185°F)
Dew Point Accuracy:	Better than ±1°C (±1.8°F) if T>30°C (86°F) and RH>40%, T<30°C (86°F) and RH>30%
Repeatability:	±1°C (±1.8°F)
Operating Temperature Range:	-15°C to +85°C (+5°F to +185°F); temp. signal available with second loop
Temperature Accuracy:	0.5°C (±0.9°F)
Absolute Humidity Range:	1 to 350 g/m^3
Mixing Ratio Range:	1 to 830 g/kg
Maximum Operating Pressure:	250 psia (17 bar)
Outputs:	Loop current 4 to 20 mA, 16 μA resolution Optional output for temperature
Electronics:	Microprocessor controlled
EMI/RFI Protection:	Meets IEC 801-1 through 6
Moisture Units:	% RH, dew point temperature in °F or °C, absolute humidity in g/m^3, or mixing ratio in g/kg, hardware selectable
Power Supply:	24 V DC nominal, 12 to 32 V DC range, or tolerance +8 V DC to -15 V DC
Protection:	NEMA 4X (IP 66)
Probe Tube:	316 SS, 1/2″ (12.7mm) diameter, insertion length 3.0″ (75mm) to 5.9″ (150mm), adjustable
Typical Probe Mounting:	1/2″ tube x 1/2″ MNPT or 1/2″ tube x G 1/2 compression fitting
Weight:	4.4 lbs (2 kg)