



M70 XP

M70 Moisture Monitor with Autocal

This uniquely rugged and simple design by Envent Engineering utilizes a heated conductive polymer sensor that provides a linear output of the moisture concentration in a natural gas stream. An optional auto calibration calibrates the sensor on a daily or other configurable schedule

FEATURES

- Range: 0–20lbs/mm³ (custom ranges available)
- Rugged mechanical design
- Affordable measurement
- Data logger
- Unit will display in lbs/mm³ and/or ppm
- 2% of reading or 10 ppm (0.5 lb per million) accuracy
- 4–20 mA output and alarms (2-wire)
- RS-232 and RS-485 Serial Communications
- Ultra-low power: Less than 2 watts power consumption
- Dual-line, 16-character display
- Daily Auto calibration (Optional)

VALUE

The unit has a 4–20 ma output and RS-232/485 serial communications, alarms, internal menu scroll buttons. The M70 can display up to 128 different parameters including lbs/mm³, ppm, sensor temperature, raw millivolts and calibration factor and sensor heater load. The sensor is mounted in an insulated flame proof enclosure with flame arrestors installed in the sample flow path. Many natural gas tariff limits are set a 4 lbs water per million standard cubic feet. This is closely equivalent to 80 ppm or 64 mg/m³. The sensor is controlled to 60°C and operated at atmospheric pressure to maximize resistance to process variables and adsorption of stream contaminants.

Foul resistant. The M70 offers industry leading value in price while still maintaining reliability. The rugged sensor is resistant to chemical fouling such as amines and glycols and methanol and can be washed with alcohol without permanent damage.

Removable Sensor. The M70 sensor can be readily removed for cleaning or replacement with standard tools in seconds. The linear output enables the user to perform a single-point calibration.

Minimal Power. The standard M70 uses less than 2 watts power when installed in areas where ambient temperature is more than 0°C. This means it can be used at sites where only solar or other minimal power is available.



Model M70



M70 XP

SPECIFICATIONS

Power	12–24 VDC @ less than 2 watts
Enclosure	ADALET XIHLGGCX 5-5/8" by 5-5/8" for Class 1, Div1 Grps B, C & D
Ambient	0–50 °C (std) Consult factory for other requirements
Output Ranges	0–20 lbs/mmscf standard 10–50,000 ppm (optional) (0.5 to 2500 lbs/mmscf)
Response Time	20 seconds to 90% of step change wetting 300 seconds to 90% dry down
Accuracy	2% of reading or 10 ppm (0.5 lbs/million) Whichever is greater
Inputs	Conductive polymer sensor and 1,000 ohm RTD input Calibration factor
Outputs	4–20 mA Serial Dual 3 amp solid state alarm relays Modbus
Displays	Dual-line, 16-character display Moisture in ppm or lbs/million, sensor temperature °C, heater duty, calibration factor, and raw millivolts can be scrolled from internal button
Auto Calibration (Optional)	Includes ASCO solenoid and extra flow meter. Inlet sample is dried daily (configurable) for 15 minutes in a Silica Gel Moisture trap at 50 psig to provide a daily repeatable moisture concentration reference, typically .5 lbs/mmscf



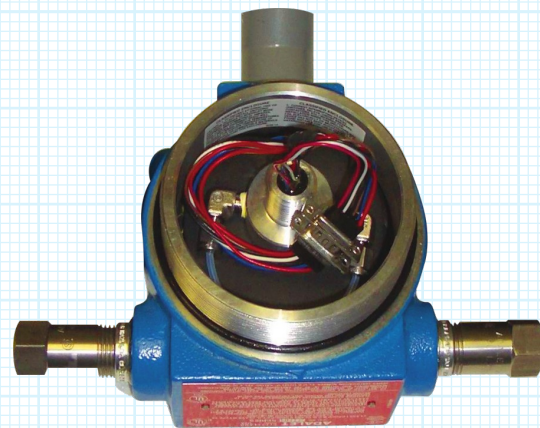
M70 with Insulated Housing Option



M70 with standard sample system mounted on 16" by 24" anodized aluminum panel



M70 with autocal sample system mounted on 16" by 24" anodized aluminum panel



Easy Sensor Replacement