

ENVENT MODEL M70

Moisture Monitor with Auto-Zero

The Model M70 is designed to monitor moisture/water content in natural gas applications. A heated conductive polymer sensor that provides a linear output of moisture concentration is incorporated into the design of the instrument. The M70 also offers an integrated sample conditioning system and Auto-Zero function that zeros the sensor on a daily or other configurable schedule.

FEATURES

- ✎ Range: 0–20lbs/mmscf (custom ranges available)
- ✎ Rugged mechanical design
- ✎ Affordable measurement
- ✎ Unit will display in lbs/mmscf 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-Zero

Benefits

Many natural gas tariff limits are set at 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 minutes.

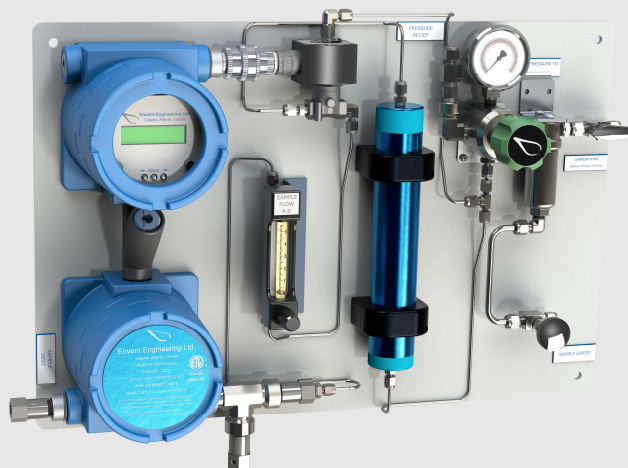
Minimal Power. The standard M70 uses less than 2 watts power when installed in areas where ambient temperature is more than 0°C. This means it can be used at sites where only solar or other minimal power is available.

Additional Advantages

- ✎ Quick Delivery
- ✎ Full service & training
- ✎ The M70 is comparable to systems three times its price



M70 Moisture Monitor



M70 Moisture Monitor with Auto-Zero



M70 Moisture Monitor with Auto-Zero in a Heated, Insulated Fiberglass Enclosure

SPECIFICATIONS

Power	12–24 VDC @ less than 2 watts.
Enclosure	ADALET XIHLGGCX 5-5/8" by 5-5/8" for Class 1, Div1 Grps C & D.
Ambient	0 to 60°C, 32 to 140°F (standard), consult factory for other requirements.
Output Ranges	0–20 lbs/mmscf standard. 10–300 ppm (0.5 to 300 lbs/mmscf) optional.
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
Outputs	4–20 mA. Serial RS 232 and 485. Dual 3 amp solid state alarm relays. Modbus.
Display	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 Zero	Includes ASCO solenoid and extra flow meter. Inlet sample is dried daily (configurable) for 15 minutes in a Silica Gel Moisture trap at 80 psig to provide a daily repeatable moisture concentration reference, typically 0.5 lbs/mmscf.