



Automatic Mercury Monitor for Natural Gas

AMNG-EXP

The AMNG-EXP Automatic Mercury Monitor for Natural Gas is designed for continuous, on-line measurement of Mercury in the gas flow. The spectrometer, operating computer, filters, valves, electrical connections, and power supply are located inside an explosion-proof ATEX certified enclosure. The AMNG-EXP Monitor is designed for indoor operation, or installation inside a climate-controlled room. The embedded operating computer controls the measurement procedure, data processing, and data transfer via current loop or Modbus TCP/IP Ethernet.

Housing

- ▶ Wall mounted, explosion-proof ATEX certified aluminum enclosure
- ▶ 25mm shell thickness
- ▶ Hazardous Area Classification: Class 1, Division 1 or 2, Groups B, C, D
- ▶ External ON/OFF Switch
- ▶ Window in door displays the 5-minute average and turns RED/GREEN to display status

Key Features

- ▶ No chemicals, carrier gases, or zero gases
- ▶ Zeeman Background Correction
- ▶ Online remote data transfer and analyzer control/calibration capabilities
- ▶ Inlet and outlet ports are equipped with 3/8-inch Swagelok compression fittings (6mm or 10mm) for connecting Teflon PTFE, PFA, or Silco coated stainless steel tubing
- ▶ Direct continuous measurements
- ▶ Low detection limit and wide measurement range
- ▶ Automatic zero drift correction
- ▶ Automatic span drift correction
- ▶ Long-term calibration stability
- ▶ Low maintenance
- ▶ Customized configuration



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Application Examples

	Treated Gas	Raw Gas
Measurement Range*	0 – 25,000 ng/m ³	0 – 250,000 ng/m ³
Detection Limit**	1 – 5 ng/m ³	10 – 50 ng/m ³

Averaging Interval	5 min
Zero Drift Correction	Automatic
Span Drift Correction	Automatic

Sampling Gas Conditions	
Gas Pressure	< 34.5 kPag (5.0 psig) or < atmospheric +30%
Flow Rate	4 – 10 Liters/min
Gas Humidity	Dew Point < +10°C (+50°F)
Gas Temperature	40°C (104°F)

Data Output	
Communication Ports	2 x LAN, Isolated 4-20 mA
Status Outputs	MEASURING; ZERO CONTROL; CALIBRATION; SERVICE; FAILURE

Operating Conditions	
Temperature	+20 ± 2°C (+68 ± 3.6°F)
Pressure	84.0 to 106.7 kPa (12.2 to 15.5 psi)
Relative Humidity	< 98% at +35°C (+95°F)
Power	110/240 V, 50/60 Hz; 120 VA
Dimensions	740 x 584 x 251 mm (29 x 23 x 10 inches)
Weight	92 kg (203 lbs)

* Other measurement ranges available depending on customer requirements

** Detection limit can vary depending on sample matrix

