



# Mercury Monitor for Natural Gas/RNG

## AMNG



The AMNG Mercury Monitor is designed for continuous, on-line measurement of mercury in natural gas or other gaseous fuels. The monitor components can be housed in a variety of enclosures, including a general-purpose 19" rack-mount enclosure, a purged enclosure, or an explosion proof enclosure. Utilizing Zeeman Background Correction technology, the monitor is capable of measuring low mercury concentrations while correcting for interferences in the gas stream. Automatic zero and span corrections allow for stable long-term operation with low maintenance requirements.

### Key Features

- No carrier gases required
- No zero or span gases required
- Automatic zero drift correction
- Automatic span drift correction
- Long-term calibration stability
- Zeeman Background Correction
- External communication via Modbus or 4-20mA
- Direct continuous measurement
- Low detection limit and wide measurement range
- Low maintenance
- Customized configuration





## Applications

- Mercury monitoring in natural gas
- Feedback control of Mercury Removal Units (MRU)
- Feed forward process control for MRU
- Monitoring of MRU for petroleum refinery process gas
- Design optimization of MRU
- Gas analyzer buildings along pipelines and intersection points



## Enclosure Options

- Wall-mount explosion proof enclosure suitable for hazardous areas
- 19" rack-mount or tabletop enclosure for general purpose areas



Technical Specifications		
Measurement Range*	<b>Treated Gas</b> 0 – 25,000 ng/m <sup>3</sup>	<b>Raw Gas</b> 0 – 250,000 ng/m <sup>3</sup>
Detection Limit**	<b>Treated Gas</b> 0 – 5 ng/m <sup>3</sup>	<b>Raw Gas</b> 10 – 50 ng/m <sup>3</sup>
Averaging Interval	5 min	
Zero Drift Correction	Automatic	
Span Drift Correction	Automatic	
Sample Requirements		
Gas Pressure	Atmospheric ± 30% (Pump available if sample not under pressure)	
Flow Rate	4 – 10 LPM	
Gas Humidity	Dew Point < +10°C (+50°F)	
Gas Temperature	-20°C (-4°F) to +40°C (104°F)	
Data Output		
Communication Ports	2 x LAN, Isolated 4 – 20 mA	
Status Outputs (via Modbus)	MEASURING; ZERO CONTROL; CALIBRATION; SERVICE; FAILURE	
Operating Conditions		
Temperature	+20 ± 2°C (+68 ± 3.6°F)	
Relative Humidity	<98% at 35°C (+95°F)	
Power Requirements	110/240 V, 50/60 Hz; 120 VA	
Dimensions (Explosion-Proof Encl.)	740 x 584 x 251 mm (29 x 23 x 10 in)	
Weight (Explosion-Proof Encl.)	92 kg (203 lbs)	

