

RA-915 AMNG Automatic Mercury Monitor for Natural Gas



AREA OF APPLICATION

Automatic mercury monitor for natural hydrocarbon gas is designed for continuous online monitoring of mercury gas flow.

METHOD

The method of mercury determination in gas is based on atomic absorption spectrometry with Zeeman correction of background absorption.

ADVANTAGES

- Direct continuous measurements
- Analyzes gas “as is” providing better control of production process
- Low detection limit and wide range of measurement
- Highest selectivity
- Long term calibration stability
- No chemicals, carrier or zero gases
- Low continuous operating costs
- Automatic zero drift and span drift correction
- Automatic recalculation to standard conditions
- Auto control and preventive maintenance functions
- Robustness and low maintenance

DESIGN

The monitor is mounted in a standard 19-inch rack. The RA-915 AMNG monitor is designed for indoor operation or installation in climate controlled cabinets. The embedded operating computer controls the measurement procedure, data processing and data transfer via RS-232/485 interface or current loop. The monitor may be placed in an explosion proof ATEX certified enclosure.



OHIO LUMEX

TECHNICAL SPECIFICATIONS

	Treated Gas Range I	Treated Gas Range II	Raw Gas
Measurement Range	0 – 2000 ng/m ³	0 – 20000 ng/m ³	0 – 2000 µg/m ³
Detection Limit	1 – 5 ng/m ³	100 ng/m ³	0.5 – 1 µg/m ³
Averaging Interval	5 min	Optional > 2 sec	Optional > 2 sec
Zero drift correction	Automatic		
Span drift correction	Automatic		
Sampling gas condition			
Gas pressure	Atmospheric (±20 %)		
Flow rate	4 – 10 L/min	4 – 10 L/min	0.5 – 10 L/min
Gas humidity	Dew point < 10 °C		
Gas temperature	-20 to +40 °C		
Concentration of H2S	≤50 mg/m ³	≤200 mg/m ³	≤1000 mg/m ³
Concentration of benzene	≤10 mg/m ³	≤200 mg/m ³	≤2000 mg/m ³
Concentration of mercaptans	≤50 mg/m ³	≤200 mg/m ³	≤1000 mg/m ³
Concentration of aromatic compounds	≤200 mg/m ³	≤2000 mg/m ³	≤10000 mg/m ³
Data output			
Communication ports	RS-232/485; 2 x USB; LAN, Isolated 4-20 mA		
Status outputs	MEASURING; ZERO CONTROL; CALIBRATION; SERVICE; FAILURE		
Operating conditions			
Temperature	+(20±2)°c		
Pressure	84 TO 106.7 kPa		
Relative humidity	< 98% at +35°C		
Power	110/240 V, 50/60 Hz; 120 VA		
Dimensions	600 x 480 x 220 mm		
Weight	20 kg		

SERVICES

Initial installation, method development and training is not required due to the fully automated and simple operation.



Ohio Lumex Co., Inc.

30350 Bruce Industrial Parkway, Solon, OH 44139

Toll Free: 1(888) 876-2611

Phone: (440) 264-2500 Fax: (440) 264-2501

E-mail: mail@ohiolumex.com

The information and specifications in this publication are subject to change without notice.

OHIO LUMEX