

RA-915AMNG

Automatic mercury monitor for natural gas



AREA OF APPLICATION

RA-915AMNG online mercury monitor is designed for direct continuous mercury determination in natural hydrocarbon gas. RA-915AMNG performs fully automated unattended measurement 24/7 in a gas flow.

PRINCIPLE OF OPERATION

Differential atomic absorption spectrometry with Zeeman background correction.

DESIGN

RA-915AMNG monitor is designed for indoor operation or installation in climate-controlled cabinets. The monitor is mounted in a standard 19-inch rack. The embedded PC controls the measurement procedure, data processing, and data transfer via digital or analog protocols. The monitor may be put into an explosion-proof ATEX-certified enclosure.

ADVANTAGES

- Direct continuous measurements. The gas is analyzed «as is» providing better control of the production process
- No pre-concentration on sorbent traps
- Low detection limit and wide measurement range
- Highest selectivity
- Long-term calibration stability
- No chemicals, no carrier and zero gases
- Automatic zero drift and span drift correction
- Built-in control and preventive maintenance functions
- Low running and maintenance cost
- Customized configuration
- Autorun function in case of power supply failures

TECHNICAL SPECIFICATIONS

	Range I, ng/m ³	Range II, ng/m ³	Range III, ng/m ³
Measurement range	0–2 000	0–150 000	0–3 000 000
Detection limit	1	50	500
Zero drift correction		Automatic	
Span drift correction		Automatic	
Flow rate	4–10 L/min	4–10 L/min	0.5–10 L/min

Sampling gas conditions

Gas pressure	Atmospheric (+/-20%)
Gas temperature	+1 to +40 °C

Allowed concentrations of interfering components, mg/m³ (not more)

Range of mercury content, ng/m ³	1 – 10	10 – 100	100 – 1000	>1000
Hydrogen sulfide (H ₂ S)	100	100	1000	1000
Sulfur dioxide (SO ₂)	10	100	1000	1000
Mercaptans	100	100	100	100
Nitrogen oxides (NO _x)	100	100	100	100
Benzene (C ₆ H ₆)	0,5	5	50	500
Aromatic compounds (excluding benzene)	10	100	500	500

Data output

Communication ports	RS 232/485; 2 x USB; LAN; 4–20 mA current loop; Relay output
Data transfer protocols	GESYTEC; Modbus; Analogue
Power requirements	100/240 VAC; 50/60 Hz; max 120 VA
Dimensions	665 × 482 × 222 mm
Weight	20 kg

WARRANTY

RA-915AMNG analyzer is covered by a full 1-year warranty.

SERVICE

Installation and commissioning of Lumex Instruments' mercury monitors can be carried out at a customer site by our service engineers or by certified distributor service engineers.



Find your local Lumex Instruments distributor:
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