

# RA-915AM

Automatic air mercury monitor



## AREA OF APPLICATION

RA-915AM online mercury monitor is designed for direct continuous mercury determination in ambient and indoor air and process gases. The instrument performs fully unattended measurement 24/7. RA-915AM can be used for stationary long-term observations and also can be installed in moving vehicles.

## PRINCIPLE OF OPERATION

Differential atomic absorption spectrometry with Zeeman background correction.

## DESIGN

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

## ADVANTAGES

- Direct continuous measurements
- No pre-concentration on sorbent traps
- Low detection limit and wide measurement range
- Highest selectivity
- No chemicals, no carrier and zero gases
- Long-term calibration stability
- Automatic zero and span drift correction
- Built-in control and preventive maintenance functions
- Low running and maintenance cost
- Autorun function in case of power supply failure
- An optional multiplexer enables sampling from 2 to 16 points
- Complies with EN 15852 standard method

## TECHNICAL SPECIFICATIONS

	Range I, ng/m <sup>3</sup>	Range II, ng/m <sup>3</sup>	Range III, ng/m <sup>3</sup>
Measurement range	0–2 000	0–150 000	0–3 000 000
Limit of Detection	0.1	10	200
Zero drift correction	Automatic		
Span correction	Automatic		
Air flow rate	7–10 L/min		
Analyzed air temperature	-20 to +40 °C		
Communication ports	RS 232/485; 2 x USB; LAN; 4–20 mA current loop; Relay output		
Data transfer protocols	GESYTEC; Modbus; Analogue		
Power requirements	110/240 VAC; 50/60 Hz; max 120 VA		
Dimensions	665×482×222 mm		
Weight	20 kg		

## MULTIPLEXER



Number of sampling points	2–16
Sampling line	up to 150 m
Power requirements	100/240 VAC; 50/60 Hz
Size	665×482×222 mm
Weight	15–25 kg

## SERVICES

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

## WARRANTY

RA-915AM mercury monitor is covered by a full 1-year warranty.

## RA-915AM MONITORS IN USE



*The long-term background mercury monitoring at the GMOS network station*



*Indoor mercury monitoring at the Hg treatment plant in Europe*



Find your local Lumex Instruments distributor:  
[www.lumexinstruments.com](http://www.lumexinstruments.com) | [sales@lumexinstruments.com](mailto:sales@lumexinstruments.com)

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

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