

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 ³ | Range II, ng/m ³ | Range III, ng/m ³ |
|--------------------------|--|--------------------------------|---------------------------------|
| 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 | 00/240 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:
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The information and specifications in this publication are subject to change without notice.

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