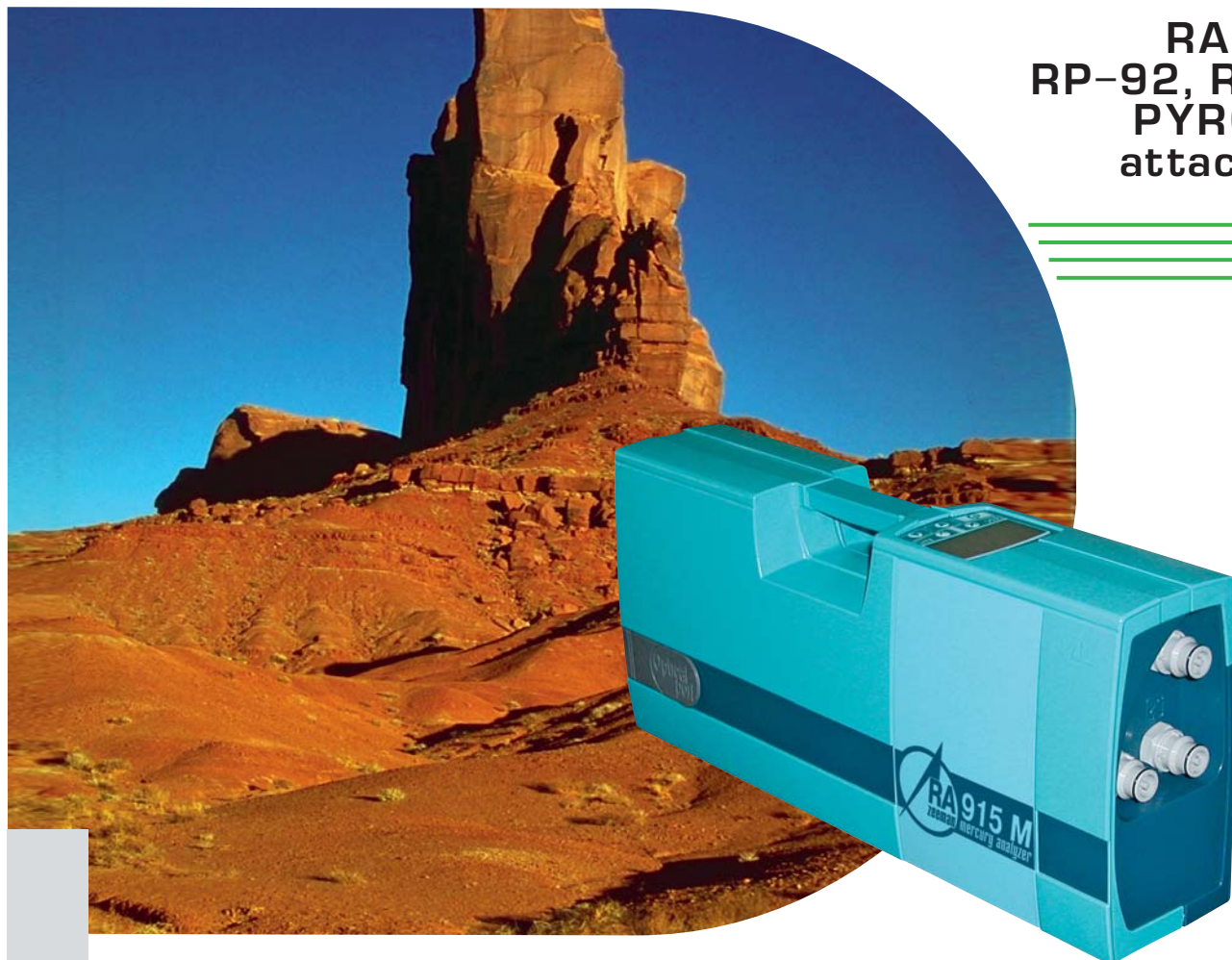


# PORTABLE ZEEMAN MERCURY ANALYZER RA-915M

RA-915M;  
RP-92, RP-91C,  
PYRO-915+  
attachments



## METHOD of measurements and principle of operation

Atomic absorption spectrometry at 254 nm with Zeeman correction for background absorption for interference-free measurement.

## FEATURES AND BENEFITS

- Simple to operate, fully automated, self validating analyzer.
- Rugged/Versatile design for laboratory and field mobile conditions.
- Ultra low detection limit and highest selectivity.
- Real time operation mode for air and gases.
- Direct determination of mercury in liquid and solid matrices within 60 seconds (attachment required).  
No sample preparation, no use of hazardous chemicals or compressed oxygen.
- Built in performance verification test cell and auto zero function.
- Wide dynamic measuring range (four orders of magnitude).
- Controlled by a keypad or by a computer via USB interface.
- Data logger for 122 hrs of data acquisition, averaging and storage.
- Rechargeable battery with charge lasting up to 12 hours.

The system is the improved version of the the renowned LUMEX RA-915+ mercury analyzer with enhanced functionality (improved battery and data logger capacity, longer lamp lifetime).



LUMEX

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## APPLICATION EXAMPLES

| Matrix   | Detection limit         | Sampling   | Attachments        |
|--|-------------------------|------------|--------------------|
| Ambient air  | 0.5 ng/m <sup>3</sup>   | 10 l/min   | Direct             |
| Natural and other gases                                | 2-500 ng/m <sup>3</sup> | 1-10 l/min | Direct             |
| Water  | 0.5 ng/l                | 1-20 ml    | RP-92 (Cold vapor) |
| Urine  | 1 ng/l                  | 1-5 ml     | RP-92 (Cold vapor) |
| Solid samples (soils, rocks, sediments)                | 0.5 µg/kg               | 10-300 mg  | RP-91C             |
| Sorbent traps for stack gases                          | 1 µg/kg                 |            | PYRO-915+          |
| Solid samples (solids, rocks, sediments)               | 0.5 µg/kg               | 10-400 mg  | PYRO-915+          |
| Water and solutions                                    | 1 µg/l                  | 10-200 µl  | PYRO-915+          |
| Coal   | 1 µg/kg                 | 10-300 mg  | PYRO-915+          |
| Biological samples (tissues, liver, blood, hair, etc.) | 1-5 µg/kg               | 10-300 mg  | PYRO-915+          |
| Oil and oil products                                   | 1-5 µg/kg               | 10-200 mg  | PYRO-915+          |
| Foodstuff, plants                                      | 0.5-3 µg/kg             | 10-400 mg  | PYRO-915+          |



RA-915M with RP-92



RA-915M with RP-91C



RA-915M with PYRO-915+

## DELIVERY SET

RA-915M portable Zeeman mercury analyzer comes with the RAPID software, charger, shoulder bag, intake hose/filter, mercury filter, cables, and manuals.

## OPTIONAL

Analyzer can be used in combination with solid and liquid matrix analysis attachments:

- RP-92 attachment for liquid sample analysis (Cold vapor method).
- RP-91C attachment for solid sample analysis (Thermal decomposition method without sample pre-treatment).
- PYRO-915+ attachment for liquid and solid samples analysis (Thermal decomposition method without sample pre-treatment).
- M-324 attachment for sorbent traps analysis (US EPA Method 30B).

## WARRANTY

RA-915M analyzer and attachments are covered by 12 months limited warranty.

## SPECIFICATIONS

|  | Dimensions   | Weight | Power supply                            | Power consumption | Analysis time  |
|--|--|--------|---|-------------------|----------------|
| <b>RA-915M</b><br>Air and gas analysis | 460x210x110 mm   | 7 kg   | 240/220/110 VAC,<br>50/60 Hz;<br>12 VDC | 36 W              | Direct on line |
| <b>RP-92 attachment</b>                | 360x225x125 mm   | 7 kg   | 240/220/110 VAC,<br>50/60 Hz;<br>12 VDC | 20 W              | 40-80 sec.     |
| <b>RP-91C attachment</b>               | 340x240x120 mm   | 5.5 kg | 240/220/110 VAC,<br>50/60 Hz;           | 150 W             | 40-80 sec.     |
| <b>PYRO-915+ attachment</b>            | 350x350x120 mm (pyrolyzer)<br>380x260x130 mm (power supply unit) | 17 kg  | 240/220/110 VAC,<br>50/60 Hz            | 700 W             | 60-180 sec.    |

## SERVICES

Upon request installation and commissioning of RA-915M analyzer and attachments can be carried out at Customer's site by our service engineers. Support and training of operators, meeting customer's specific needs, are provided by highly qualified application engineers.

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



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