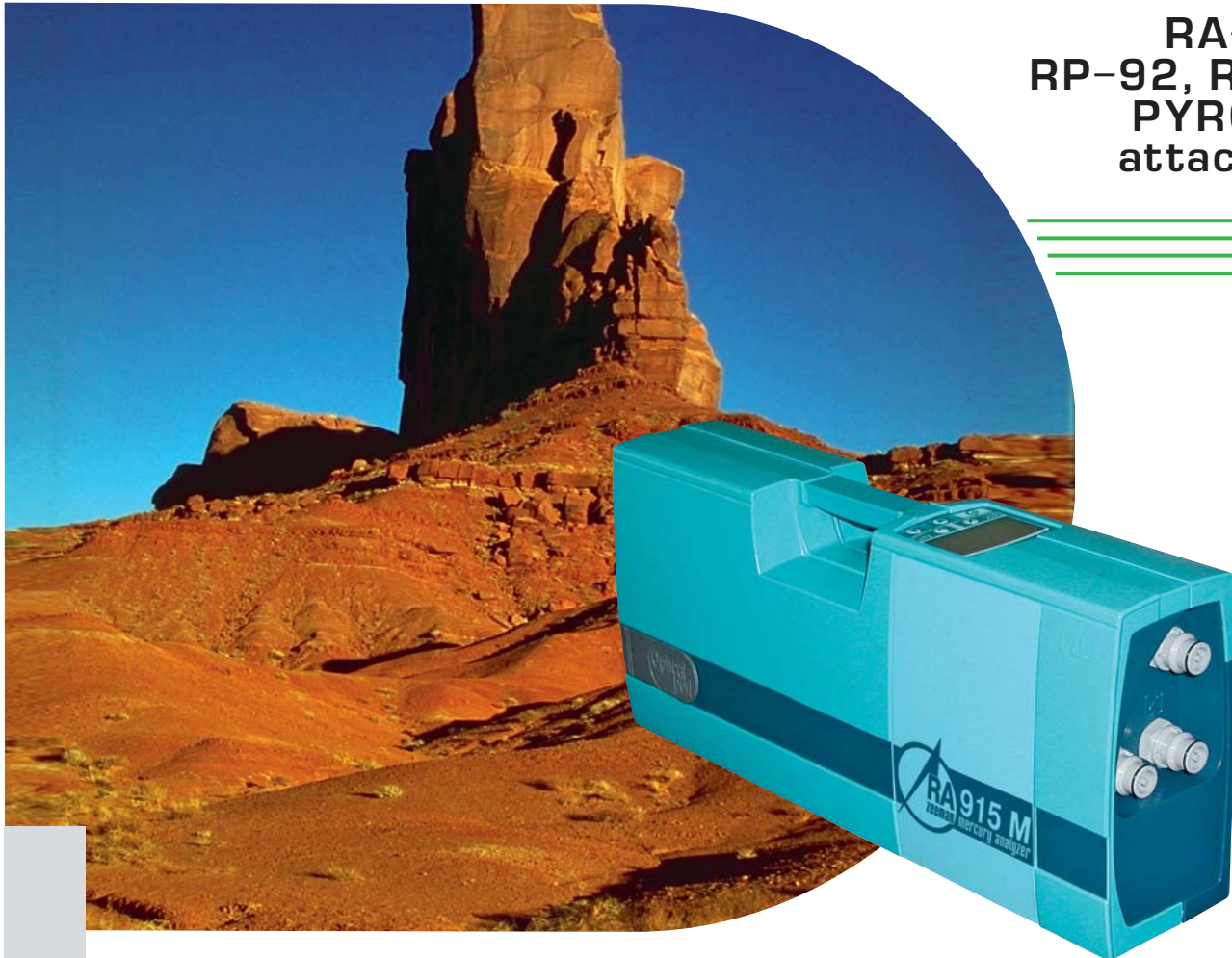




# PORTABLE ZEEMAN MERCURY ANALYZER RA-915M

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).



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

### Lumex Ltd., Headquarters, Russia

70, bldg. 2, Obukhovskoy  
Oborony pr., St. Petersburg  
192029, Russia  
Tel.: +7 (812) 718-5390,  
+7 (812) 718-5391  
Fax: +7 (812) 718-5399  
E-mail: sales@lumex.ru  
www.lumex.biz  
Post address: BOX 1234,  
St. Petersburg, 190000, Russia

### Lumex Analytics GmbH, Germany

Naher Str. 8,  
D-24558 Wakendorf II  
Tel: +49 (4535) 29-7756,  
+49 (4535) 29-7758  
Fax: +49 (4535) 29-7783  
E-mail: info@lumexanalytics.de  
www.lumexanalytics.de

### Lumex-marketing Ltd. Beijing Representative Office, People's Republic of China

Room 707, No1, Zhujiangdijing 23#  
Xidawang Road,  
Chaoyang District, 100025 Beijing,  
PR China  
Tel: +86 (10) 5863-1490  
Fax: +86 (10) 5863-1470  
E-mail: lumex@lumex.com.cn  
www.lumexcn.com

### OhioLumex Company, Inc., USA

9263 Ravenna Rd, Unit A-3,  
Twinsburg, OH 44087, USA  
Tel: +1 (888) 876-2611,  
+1 (330) 405-0837  
Fax: +1 (330) 405-0847  
E-mail: mail@ohiolumex.com  
www.ohiolumex.com



ISO 9001:2008  
Reg. Nr. Q-04.04.18f

13LE06.02-1

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