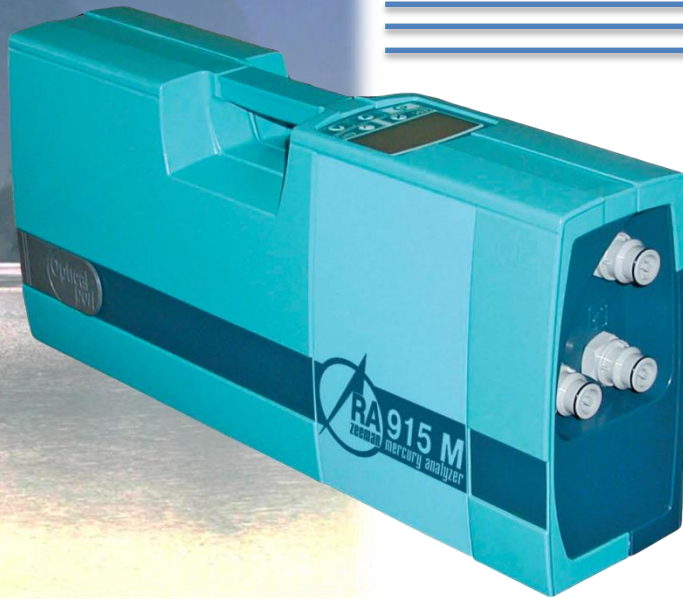


PORTABLE ZEEMAN MERCURY ANALYZER RA-915M



For ambient air, liquid,
solid, and other
mercury testing in the
field or laboratory



METHOD OF MEASUREMENT AND PRINCIPLE OF OPERATION

Atomic absorption spectrometry at 254 nm with Zeeman correction for background absorption for interference-free measurement. Methods: ASTM D7622-10, SW846 series 245, 1631, 7473, NIOSH 6009 performance based methods.

APPLICATIONS:

- Emergency response to mercury spills and verification of spill clean up
- Listed on US EPA Emergency Equipment List
- Precise determination of mercury in: ambient air, natural gas, stack gases, soil, coal, sorbent traps, crude oil, food, pharmaceuticals, water and waste water

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 computer via USB interface
- Data logger
- Easy to ship and use anywhere in the world
- Rechargeable battery with charge lasting up to 12 hours
- USB interface



APPLICATION EXAMPLES

Matrices	Detection and upper range limits (without dilution)	Sampling rate, size	Attachment
Ambient air 1000 ng = 1 ug = 0.001 mg	0.5 to 30,000 ng/m ³	10 l/min	Direct
Ambient Air (High Concentration Mode)	500 – 2,000,000 ng/m ³	Open air	Direct
Natural and Stack Gases	2 – 30,000 ng/m ³	1 – 10 l/min	Direct
Water and Solutions	0.5 – 10,000 ng/l	1 – 20 ml	CVAA by RP-92
Water and Solutions (High Concentration Mode)	0.1 – 1000 ug/l	1 – 5 ml	CVAA by RP-92
Urine	0.1 – 1000 ug/l	1 – 5 ml	CVAA by RP-92
Solid samples (solids, rocks, sediments)	0.5 – 500,000 ug/kg	10 – 400 mg	Direct by PYRO-915+
Water and solutions	1 – 500,000 ug/kg	10 – 200 ug	Direct by PYRO-915+
Coal	1 – 500,000 ug/l	10 – 300 mg	Direct by PYRO-915+
Biological samples (tissues, liver, blood, hair, etc.)	(1 – 5) to 50,000 ug/kg	10 – 300 mg	Direct by PYRO-915+
Oil and oil products	(1 – 5) to 50,000 ug/kg	10 – 200 mg	Direct by PYRO-915+
Plants	(0.5 – 5) to 50,000 ug/kg	10 – 400 mg	Direct by PYRO-915+
Foodstuff	(0.5 – 3) to 50,000 ug/kg	10 – 400 mg	Direct by PYRO-915+



RA-915M with RP-92



RA-915M with PYRO-915+

DELIVERY SET

RA-915M portable Zeeman mercury analyzer comes with: software, charger, shoulder bag, intake hose/filter, mercury filter, cables, calibration certificate, manual, Pelican shipping case

OPTIONAL

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

RP-92 attachment for liquid sample analysis

PYRO-915+ attachment for liquid and solid direct (no sample preparation) analysis

WARRANTY

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

SPECIFICATIONS

	Size, mm	Weight, kg/lbs	Power Supply	Power consumption, W	Analysis time, s
RA-915M Air and gas analysis	460x210x110	7/15	240/110 VAC, 50/60 Hz; 12 VDC	20	Direct on-line
RP-92 attachment "Cold Vapor AA" technique	340x240x120	4/8.8	240/110 VAC, 50/60 Hz; 12 VDC	20	40-80
PYRO-915+ attachment Thermal decomposition without sample preparation	350x350x120 (pyrolyzer) 380x350x120 (power supply unit)	17/37	240/110VAC, 50/60 Hz	700	60-180

SERVICES

Analyzer can be tailored to customer specific applications by our service engineers. Annual calibration is traceable to NIST and is recommended. Fast turnaround on service and calibration at Twinsburg, OH facility.

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

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