

RA-915 M

Portable Zeeman Mercury Analyzer



Method of Measurements and Principle of Operation

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

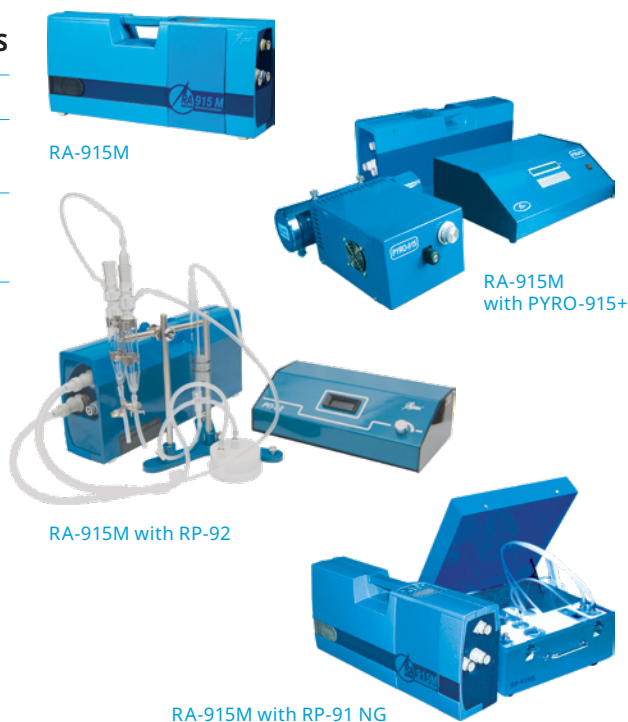
Features and Benefits

- ✓ Simple to operate.
- ✓ Rugged/Versatile design for laboratory and field.
- ✓ 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 (attachments required).
No sample preparation, no use of hazardous chemicals or bottled gases.
- ✓ Built-in performance verification test cell and auto zero function.
- ✓ Wide dynamic measuring range (four orders of magnitude).
- ✓ Controlled by a keypad or a computer via USB interface.
- ✓ Data logger for 122 hours of data acquisition, averaging, and storage.
- ✓ Rechargeable battery for up to 12 hours operation.

Application Examples

MATRIX	DETECTION LIMIT	SAMPLING	ATTACHMENTS
Ambient air	0.5 ng/m ³	10 L/min	×
Natural and other gases	2–500 ng/m ³	1–10 L/min	RP-91NG
Water	0.5 ng/L	1–20 mL	RP-92
Urine	1 ng/L	1–5 mL	(Cold vapor)
Solid samples (soils, rocks, sediments)	0.5 µg/kg	10–400 mg	
Water and solutions	1 µg/L	10–200 µL	
Coal	1 µg/kg	10–300 mg	
Sorbent traps for stack gases*	0.5 ng	×	PYRO-915+
Biological samples (tissues, liver, blood, hair, etc.)	1–5 µg/kg	10–300 mg	
Oil and oil products		10–200 mg	
Foodstuff, plants	0.5–3 µg/kg	10–400 mg	

* Range 0.5–50 000 ng



Specifications

	DIMENSIONS (L × W × H)	WEIGHT	POWER SUPPLY	POWER CONSUMPTION	ANALYSIS TIME
RA-915M Air and gas analysis	470 × 110 × 210 mm	7 kg	90–240 VAC, 50/60 Hz, 12 VDC	40 W	Direct on-line
RP-92 attachment	360 × 225 × 125 mm			20 W	40–80 sec
PYRO-915+ attachment	430 × 340 × 135 mm (pyrolyzer) 400 × 280 × 135 mm (power supply unit)	17.5 kg	100–240 VAC, 50/60 Hz	700 W	60–180 sec
RP-91NG attachment	320 × 290 × 160 mm	6.5 kg		35 W	×

Delivery Set

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

Optional

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

- ▶ PYRO-915+ attachment for liquid and solid samples analysis (Thermal decomposition method without sample pre-treatment and thermoscanning option)
- ▶ RP-92 attachment for liquid sample analysis (Cold vapor method)
- ▶ RP-91NG attachment for natural gas analysis

Warranty

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

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.



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