

# Portable Zeeman Mercury Vapor Analyzer

## Light-915M2

The Light-915M2 is a compact, portable mercury analyzer designed for direct mercury vapor measurement in ambient air. It is a good option for applications that do not require the low detection limits of the RA-915M model but may be subjected to high concentrations that necessitate a wide measurement range.

### Principle of Operation

Atomic absorption spectrometry with Zeeman background correction

### Applications

- ▶ Workplace safety
- ▶ Environmental monitoring
- ▶ Mercury spill response screening
- ▶ Hazardous waste inspection
- ▶ Contaminated site investigation
- ▶ Mercury measurement in scientific research
- ▶ Occupational and industrial hygiene monitoring



### Features & Benefits

- ▶ Real-time mercury measurements in air
- ▶ Detection limit at 0.02 ug/m<sup>3</sup>
- ▶ Fully automated with built-in auto zero and calibration verification test cell
- ▶ NIST traceable calibration
- ▶ Wide dynamic detection range (5 orders of magnitude)
- ▶ Built-in datalogger and USB-B data transfer interface
- ▶ No 'memory effect'
- ▶ Controlled by keypad
- ▶ Up to 12 hours of continuous operation on battery
- ▶ Rugged design for laboratory and field
- ▶ Catalyst and carrier gas-free operation





## Specifications

Detection limit	0.02 $\mu\text{g}/\text{m}^3$
Measurement Range	0-200 $\mu\text{g}/\text{m}^3$
Sampling Rate	1 l/min
Size	264 x 242 x 110 mm (10.4 x 9.5 x 4.3 in)
Weight	4.3 kg (9.8 lbs)
Power Supply	10-25 VDC, 40W Max External power adapter 100/240 VAC, 18 VDC (included)
Display Resolution	0.01 $\mu\text{g}/\text{m}^3$ (for range 0-0.99 $\mu\text{g}/\text{m}^3$ ) 0.1 $\mu\text{g}/\text{m}^3$ (for range 1-99 $\mu\text{g}/\text{m}^3$ ) 1 $\mu\text{g}/\text{m}^3$ (for range >100 $\mu\text{g}/\text{m}^3$ )
Response Time	1 reading per second

## Operating Conditions

Ambient Air Temp.	1 – 40°C (33.8 – 104°F)
Ambient Pressure Range	84.0 – 106.7 kPa
Relative Humidity Percentage at 35°C	< 95%

Each instrument includes a NIST traceable calibration certificate and a one year manufacturer's warranty.