



# LUMEX LIGHT-915 Portable Zeeman Mercury Air Analyzer Owner's Manual

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**LUMEX LIGHT-915 Portable Zeeman Mercury Air Analyzer**



## Product Information

Product Name: LIGHT-915 Portable Zeeman Mercury In Air Analyzer

Method of Measurement and Principle of Operation: Atomic absorption spectrometry at 254 nm with Zeeman correction for interference-free measurements.

Applications: The LIGHT-915 analyzer is used for measuring mercury levels in ambient air.

Delivery Set: The LIGHT-915 Portable Zeeman Mercury Analyzer comes with the following items:

- Charger
- Data Logger
- Software
- Shoulder Bag
- Intake Hose/Filter
- Mercury Filter
- Cables
- Calibration Certificate
- Manual
- Pelican Shipping Case

Warranty: The LIGHT-915 analyzer is covered by a 12-month warranty.

## Specifications

- Size: 290x210x110 mm

- Weight: 3.3 kg / 7.3 lbs
- Power Supply: 240/100 VAC, 50/60 Hz
- Power Consumption: 20 W
- 12 VDC

**Services:** Upon request, installation and commissioning of LIGHT-915 analyzers can be carried out on the customer's site by Lumex Instruments service engineers. Consultations and initial training of attendance personnel, tailored to the customer's specific needs, are also provided. Spare parts are delivered and repairs are made immediately upon customer's request.

## Product Usage Instructions

1. Ensure that the analyzer is properly charged before use.
2. Connect the intake hose/filter to the analyzer.
3. Turn on the analyzer using the power supply.
4. Set the sampling rate to 5 l/min for measuring ambient air.
5. Attach the analyzer directly to the sample source using the provided attachments.
6. Allow the analyzer to collect and analyze the air samples
7. Use the included software to monitor and analyze the collected data.
8. When not in use, store the analyzer in the shoulder bag or the Pelican shipping case for protection.
9. If any issues or repairs are needed, contact Lumex Instruments customer support and provide the necessary information for assistance.

**Note:** Refer to the provided manual for detailed instructions on calibration and maintenance of the LIGHT-915 analyzer.

## METHOD OF MEASUREMENT AND PRINCIPLE OF OPERATION

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

## APPLICATIONS

- Mercury determination in ambient air.
- Emergency response to mercury spills and verification of spill clean up.
- Workplace monitoring.

## FEATURES AND BENEFITS

- Easy to use.
- Fully Automated with built-in test cell and auto zero.
- Versatile design for laboratory and field applications.
- Low detection limit / highest selectivity within 5 orders of magnitude measuring range.
- No memory effect.
- Real-time operation at 1 reading per second display.
- Data logger for 122 hrs of data acquisition, averaging and storage.
- Multi-Power and Battery life up to 12 hours.
- USB and Bluetooth interface.



## APPLICATION SAMPLES

- **Objects:** Ambient air
- **Measurement Range:** 0.1 to 3000 µg/m<sup>3</sup>
- **Sampling Rate:** 5 l/min
- **Attachments:** Direct on-line

## DELIVERY SET

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

## WARRANTY

- Light-915 analyzer is covered by 12-months warranty.

## SPECIFICATIONS



- **Size, mm:** 290x210x110
- **Weight, kg/lbs:** 3.3/7.3
- **Power supply:** 240/100 VAC, 50/60 Hz, 12 VDC
- **Power consumption:** 20 W
  - Light 915 Air analysis

## SERVICES

- Upon request installation and commissioning of Light-915 analyzers can be carried out on Customer's site by our service engineers.
- Consultations and initial training of attendance personnel with due account of Customer's specific needs are performed.

- Spare parts are delivered and repair is made immediately upon Customer's request.


## Find your local Lumex Instruments distributor

-  [www.lumexinstruments.com](http://www.lumexinstruments.com).
-  [sales@lumexinstruments.com](mailto:sales@lumexinstruments.com).



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

## Documents / Resources

	<p><a href="#">LUMEX LIGHT-915 Portable Zeeman Mercury Air Analyzer</a> [pdf] Owner's Manual  LIGHT-915 Portable Zeeman Mercury Air Analyzer, LIGHT-915, Portable Zeeman Mercury Air Analyzer, Zeeman Mercury Air Analyzer, Mercury Air Analyzer, Air Analyzer, Analyzer</p>
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## References

-  [Lumex Instruments - laboratory and industry analytical instruments and procedures](#)