



OHIO
LUMEX®



915J Mercury CEM

Real-time mercury continuous emissions monitor

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The 915J Mercury Process Monitor is an advanced portable monitor designed to perform continuous emissions mercury monitoring for Point Source Emissions (Stack) derived from combustion of coal, Portland Cement manufacturing, industrial boilers, municipal incinerators, and more.

ADVANTAGES

- True Continuous Monitoring
- Proven to be Rugged at Outlet (Stack) & Inlet Locations.
- High sensitivity: Accurate at low mercury levels
- Detection: 0.1 to 500ug/m³ (customizable) in real-time, sample point displayed / 30 seconds.
- Modular design, easy to move to another sampling location.
- Analyzer console is a modular self-contained system enclosed in an easily shippable Pelican case. When being serviced, swap it with another console which is on standby at your location or overnighted to you from Ohio Lumex. Color coded connections minimize the replacement time to 1-2 hours.
- Low Maintenance: No Expensive Consumables. 3-6 Hours of maintenance on a quarterly basis.

TECHNICAL SPECS

Measured Component	Gaseous Total and Elemental Mercury
Range	0 to 500ug/m ³ (customizable)
Lower Detection Limit	0.1 ug/m ³
Response Time t ₉₀	90 sec at specified gas flow
Reporting Interval	30 sec to 300 sec
Zero Drift Correction	Depending on measurement task, recommended: every 30 to 120 min
Calibration, Span Drift Correction Elemental Hg	Depending on measurement task, recommended: every 24 hours
Gas Flow	7 - 10 l/min
Communication Ports	Ethernet (RJ-45)
Status Control	MEASURING; ZERO CONTROL; CALIBRATION; SPECIATION
Ambient air temperature	-15°C to 50°C
Atmospheric pressure	84 to 106.7 kPa
Ambient relative humidity	< 99% at 35°C
Power	120 VAC, 50Hz; max 4000 VA
Control Module Dimensions	450 x 750 x 550 mm
Heated Filter Module Dimensions	400 x 400 x 400 mm
Heated Probe Dimensions	1500 x 37.5 mm



Scan for additional information, including study results



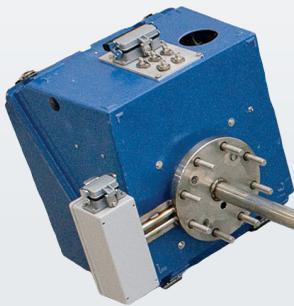
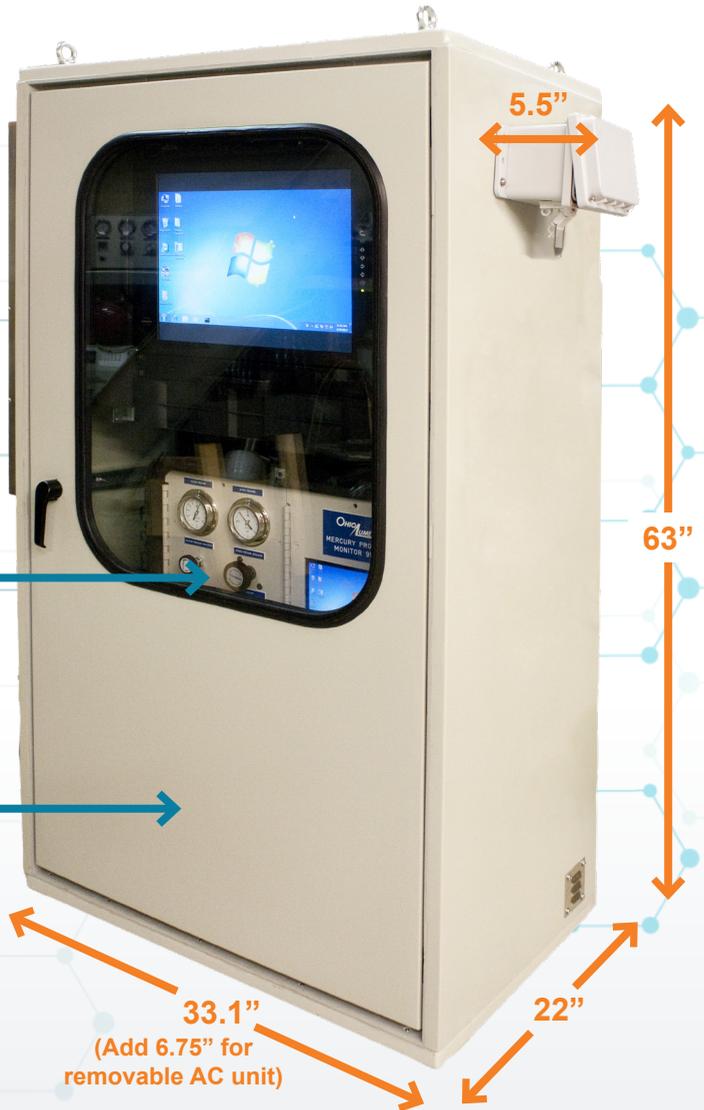
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The 915J is a modular set comprised of 4 easily movable modules.

Ambient operational range
-10-50°C, NEMA 4X. Rust proof.
Undaunted with exposure to
the elements.

Analyzer console box (100lbs):
Provided in a rolling pelican case
for easy in-field replacement.

**Temperature controlled
enclosure (150lbs):** Fiberglass
enclosure is self heated and cooled.



**Filter dilution conversion
box (35-40lbs):** Has dry
converter technology.

Probe (35-40lbs): 4 inch
ANSI flange, optional lengths,
comprised of Hastelloy.



KEY FEATURES

- **Spectrometer:** The 915J features a highly sensitive atomic absorption spectrometer with Zeeman background correction providing interference free measurements.
- **The Probe/Filter:** Sampling is based on high velocity extraction, filtering, and dilution. No mechanical pumps are used and are instead replaced by plant air. Critical orifice provides precise sample dilution. The probe and filter are self-cleaning based on periodic blowback eliminating the “reactive ash” Hg scrubbing effect. Highly effective thermal converter operates at 750°C for total Hg measurements. Speciation is provided by measuring elemental Hg only.
- **Calibration:** Built in Elemental Hg calibrator with low span (2-5 ug/m³) which can be customized for an adjustable high span (as high as 70ug/m³). No other calibration source required.
- **Umbilical Lines:** Heated line 30ft standard (other sizes available).
- **Data Acquisition/Communications:** Built-in industrial grade computer, real time readings with Excel data file or direct communications with DAHS via Modbus TCP. On-Line remote data transfer and analyzer control/calibration capabilities. Communication can also be done via 4-20mA signal with an optional PLC.
- **Utility Requirements:** Three 110/220 volt lines set for 20 amp Breakers, 2000 watts Total Power. Instrument quality air (ISO8573-1:2010 Class 3 or better)*, 90 psi of pressure minimum, 2 SCFM minimum.

* Instrument quality air is recommended, but not required. System includes integrated compressed air cleanup system to remove moisture, oil, and particulate from plant air. Supplying instrument quality air reduces required maintenance on the integrated cleanup system.

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