PICARRO

WMS-64 Workplace Monitoring System

Trusted, continuous monitoring data to safeguard worker health, support regulatory compliance, and minimize occupational risk. One system. One vendor. One defensible record of truth.

Ultra-Low	16 to 64	<10 sec	625+
Detection Limits	Scalable Sampling Points	Response Time	Spectral Library Compounds

Trusted Data — End to End Solution

The decisions you make about worker safety, regulatory compliance, and capital investment are only as good as the data behind them. The WMS-64 is purpose-built to produce measurement data you can trust — data that underwrites your risk posture, informs proactive decision-making, and holds up under regulatory, legal, and financial scrutiny. Because Picarro controls the full technology stack, there is one accountable partner responsible for every element of system performance.

Technology Highlights

- Broadband CRDS Optical Platform
- Precision Manifold Flow Control
- Zero False Positives
- Zero Consumables Required

Scalable Architecture — Invest Once, Expand as Needed

Deploy with the sampling points your facility requires today, then scale to 64 as monitoring needs evolve. The WMS-64's modular manifold design supports field expansion without replacing core hardware — protecting your initial investment while ensuring your compliance posture can grow with changing regulations.

Built to Produce Data You Can Act On

Compound Hunting

You can't manage what you don't know is there. Compound Hunting scans collected spectra against Picarro's 625+ compound library to detect and quantify species you didn't know were present — transforming blind spots into actionable intelligence before they become compliance or safety events.

Optional Dual CRDS Analyzers

Add a second analyzer for built-in redundancy with automatic failover and zero data gaps, or assign each analyzer to dedicated manifold banks for 2x faster facility-wide cycle times. Either configuration means fewer measurement gaps and higher-confidence exposure records.

Modular Manifold (16 to 64 Ports)

Field-expandable architecture with chemically inert solenoid valves, per-port variable flow rates, and support for up to 500 ft sample line lengths with automatic line-length compensation. Priority-based zone scheduling directs faster cycle times to high-risk areas while maintaining full facility coverage.

Continuous Spectral Library Updates

Picarro continuously expands and refines its spectral library — currently 625+ compounds and growing. Under the 5-year MSA, target gas configuration changes and new compound additions are included at no additional cost, ensuring your measurement capabilities keep pace with evolving regulations.

Intelligent Flow & Dwell Optimization

Smart algorithms adjust per-port sampling duration based on real-time concentration stability and zone priority. Elevated or high-risk ports get extended measurement time while stable ports cycle faster for improved data quality and faster identification of emerging conditions.

625+ COMPOUND SPECTRAL LIBRARY

The quality of every compliance decision, exposure assessment, and risk judgment depends on what your monitoring system can actually see. Picarro's broadband CRDS platform draws from a continuously expanding spectral library — currently 625 compounds and growing. Your system measures configured target gases in real time, while the Compound Hunting analytics feature scans collected spectra against the full library to identify and quantify compounds you may not have known to look for.

Compound Category	Count	Examples
Halogenated Compounds	77	Chloroform, vinyl chloride, dichloromethane, trichloroethylene, HFCs, HCFCs, CFCs, and more
Hydrocarbons	55	Methane, ethylene, propylene, butadiene, isoprene, benzene, toluene, xylenes, styrene, naphthalene, and more
Ethers, Esters and Oxides	53	Ethylene oxide, ethyl acetate, methyl methacrylate, propylene oxide, MTBE, furan derivatives, lactones, and more
Alcohols and Glycols	48	Methanol, ethanol, isopropanol, ethylene glycol, phenol, cresols, catechol, ethanolamine, butoxyethanol, and more
Amines and Nitrogen Compounds	44	Ammonia, dimethylamine, trimethylamine, pyridine, morpholine, hydrazine, ethanolamine, cadaverine, and more
Aromatics	30	Benzene, toluene, ethylbenzene, xylenes (BTEX), styrene, trimethylben-zenes, chlorobenzene, nitrobenzene
Aldehydes and Ketones	29	Formaldehyde, acetaldehyde, acetone, acrolein, furfural, butyraldehyde, hexanal, methyl ethyl ketone, and more
Acids and Sulfur Compounds	30	Peracetic acid, acetic acid, formic acid, hydrogen sulfide, methyl mercaptan, carbonyl sulfide, SO_2, and more
Inorganics and Fixed Gases	11+	CO, CO_2, H_2O_2, HCl, HCN, NH_3, NO, NO_2, N_2O, ozone, phosgene, phosphine, and more

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