

INDUSTRIAL HYGIENE: INDOOR AIR QUALITY MONITORING

THE OPPORTUNITY

For any employer, exposing employees to safety and health risks or occupational hazards at their workplace is subject to potentially important liabilities. Similar concern exists in public spaces, in particular for buildings hosting sensitive public groups such as children in school, patients and visitors in hospitals.

Industrial hygiene (IH) is the science of anticipating, recognizing, evaluating, and controlling workplace conditions that may cause workers' injury or illness. Industrial hygienists use environmental monitoring and analytical methods to detect the extent of worker exposure and employ engineering, work practice controls, and other methods to control potential health hazards. Poor environmental conditions at the workplace also need to be assessed as they may impact workers productivity as demonstrated in multiple published studies (cf. sick building syndrome).

Environmental consultants face similar gas monitoring needs when mandated to commission a new building (construction materials off-gassing toxic organic compounds), to perform diagnosis for an exposure risk assessment (vapor intrusion), or to conduct forensic studies.

Those specialists value sensitive, accurate, and reliable equipment which is easy to use even by non-experts in analytical instrumentation. Because they typically carry out a broad range of field jobs, with different needs and gases of interest depending on the mission profile, they need multiple gas analyzers and good portability.



OUR SOLUTIONS

Innova photoacoustic gas monitors have a long track record of successful deployments which encompass a broad range of applications in the fields of industrial hygiene (or occupational safety and health) or IAQ monitoring.

Stationary Applications

- VOC ambient monitoring in facilities that use organic solvents in their processes
- Toxic gases area monitoring in electronics

Mobile Applications

- Waste anesthesia monitoring in hospitals
- Leakage detection and monitoring
- Vapor intrusion and contaminant spread characterization

YOUR BENEFITS

- Highly sensitive and accurate multi-gas monitors
- Ease of use by non-experts
- Portable with direct measurement
- Analytical versatility: can measure almost any gas that absorbs IR light
- Low cost of ownership: no need of sampling canisters, very low calibration frequency



Advanced Energy's Innova 1314i



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