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OwlSens-T - Advanced Chemical Sensing

Portable & Fixed Site Chemical Detection & Monitoring

OwlSens-T is the first of its kind, next generation, gaseous and volatile chemical monitor. Capable of detecting more chemicals than any other single detector, OwlSens-T's key features include:

- **EXTREME SENSITIVITY** Detection limits to parts-per-billion
- SELECTIVITY Exceptional ability to resolve similar chemical compounds
- **RAPID RESPONSE** 15 second detection; 60 second identification
- REPROGRAMMABILITY PC controller for simple software updates and higher level data interpretation
- VERSATILITY capability against most gaseous/volatile chemicals listed in NIOSH 2010-168C (Pocket Guide to Chemical Hazards)



Example deployments

- Industrial hygiene
- In-plant air monitoring
- Distributed pipe network
- Leak detection
- Clean room monitoring
- Process monitoring
- Chemical storage tank integrity

Broadband detection

- Corrosive acidic gases (e.g. SO₂, HCN, HF, H₂S)
- Corrosive basic gases / vapors (e.g. NH₃ & Amines)
- Halogens (e.g. F₂, Cl₂, PCl₃, PF₃)
- VOCs (e.g. ethylene oxide, acrolein, acrylonitrile, etc.)
- Halocarbons (e.g. vinyl chloride, CFC's, etc)

CONTACT OWLSTONE

Our technical team is exceptionally well prepared to assist with your chemical detection requirements, whether commonplace or specific to your facility.

United States

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Detection Specifications

- Response Time 15 seconds
- Identification Time –60 seconds
- Limits of Detection & Quantification – parts per billion to parts per million range (analyte dependant)
- No special support gas supplies or vacuum requirements
- Quick and easy single point calibration with handy confidence test device

The Technology

OwlSens-T utilizes a highly advanced variant of Ion Mobility Spectrometry (IMS). This new method of ultra-fast chemical separation exploits the unique thermal properties of an ionized chemical sample, in a rapidly modulated high electric field. Every chemical has a unique spectral "finger-print", which enables real-time identification and quantification from an on-board data base.

OwlSens-T technology delivers an analytical detection window greater than double that of other Ion Mobility based separation systems; allowing greatly improved chemical separation and identification. Multi-dimensional datasets are generated and automatically analyzed, on single-second timescales, resulting in faster, more accurate, low-false-alarm rate detection and quantification.



Meeting Your Needs for Chemical Detection

Monitoring airborne contamination in your buildings and other infrastructure is critical to maintaining the health and safety of your employees, checking ambient pollution levels, or ensuring the security of designated areas. In addition to detecting common Toxic Industrial Chemicals (TICs) at concentrations well below NIOSH's IDLH specifications, OwlSens-T can be customized through software to detect specific chemicals that matter to you. Talk to us today to discuss your specific detection requirements.

TECHNICAL SPECIFICATION

| Technology | Rapid Thermal Modulation Ion Spectrometry |
|-----------------------|---|
| Ionization Source | Patented non-radioactive source |
| Dimensions | 12 × 18 × 8" = 30 × 46 × 20 cm |
| Weight | 15.8 lbs = 7.2 kg |
| Mounting | Wall mount (bracket included) |
| Housing | Rust-resistant stainless steel |
| Ambient Temperature | 0 to 40°C |
| Operating Humidity | 0 to 95% RH (non-condensing) |
| Scrubber life | 3 months |
| Power Requirements | 13A, 120-240V AC, 50/60Hz |
| Comms interface | TCP/IP (Ethernet) |
| Dry contacts relay | 3A, 240V AC (50-60Hz) / 48V DC |
| Electrical compliance | EN61010/UL61010, EN61326 + EN61000 |

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