

# MSEM™ 160



## Portable Multi-Sensor Environmental Monitor

For over 15 years **the Sensigent team** has produced electronic nose instrumentation for odor and chemical measurement, starting with the world's first handheld **eNose®**, the **Cyranose® 320**. Sensigent's proprietary sensor and data fusion software technologies are backed by **60 patents** in the US and worldwide.

The **MSEM™ 160** odor and chemical detection system is a rugged, portable monitor for use in environmental and industrial settings. **MSEM™ 160** uses Sensigent's multi-sensor data fusion technology to combine data from multiple types of sensors to enable simultaneous measurement of individual chemicals (ppm or mg/m<sup>3</sup>) and odors (OU/m<sup>3</sup>) or other mixtures.

**MSEM™ 160** combines arrays of up to 30 individual sensors including proprietary nano-composite sensors (NCA), electrochemical (EC), metal oxide semiconductor (MOS), photo-ionization (PID) and temperature and humidity sensors. Other chemical sensors are available including ultraviolet (UV) or infrared (NDIR).

Use the **MSEM™ 160** indoors to inspect production processes for leaks and chemical releases. Use it outdoors to monitor odor levels and chemicals from wastewater treatment, landfills, composting, incinerators, foundries, fumigation, petroleum refining & storage, rendering plants and other facilities and odor-producing processes. The internal data log stores measurements for several weeks of continuous monitoring. Each instrument is factory calibrated for odors and chemicals traceable to EN and ASTM standards. Calibrations can be updated by the user for the local operating environment.



### Key Features and Benefits

- Battery-operated portable instrument with internal air sampling pump
- **eNose®** odor calibration (OU/m<sup>3</sup>) per international standards (EN, ASTM)
- Simultaneous measurement of odors and chemicals (typical range 0.1 – 100 ppm)
- Continuous 24/7/365 odor and chemical monitoring and data logging
- Internal computer for weeks of data logging, data upload and networking
- Field-replaceable air filters extend sensor performance in harsh environments