



## Confined Space Monitoring with Ventis

Each day, workers open hatches, remove covers and enter the depths of confined spaces found in almost every industry. Best practice and the law both say that the air inside the space should be tested to ensure that it is safe prior to going inside. The U.S. Code of Federal Regulations, 29 CFR 1910.146, states that before an employee enters a permit-required confined space, the internal atmosphere shall be tested, with a calibrated direct-reading instrument, for the following conditions in the order given: (1) oxygen content, (2) flammable gases and vapors and (3) potential toxic air contaminants. These basic requirements are echoed in standards around the world. The Ventis MX4 multi-gas detector is the ideal instrument, designed to meet the challenges of confined space entry monitoring economically and effectively.

The Ventis detects from one to four gases including oxygen, combustible gases and two toxic gases including carbon monoxide, hydrogen sulfide, sulfur dioxide and nitrogen dioxide. A backlit liquid crystal display allows the user to

view readings from all four sensors simultaneously. Compact size and lightweight, rubber overmolded construction make the Ventis easy to carry into harsh confined space environments. Audible, visual and vibrating alarms provide an indication of when atmospheric conditions are unsafe for entry into the space.



Pre-entry confined space testing requires remote gas sampling capability. The Ventis can be configured with an integral sampling pump to draw remote gas samples from up to 100 feet away. The sampling pump has a low flow alarm to indicate when the sample line becomes obstructed and does not permit sufficient air flow to the instruments for accurate monitoring.

A lithium-ion rechargeable battery pack enables the Ventis with the sampling pump to monitor the atmosphere from the outside entry point for up to 12 hours continuously. An interchangeable alkaline battery pack permits use in emergency situations and extends monitoring operations around-the-clock for several days, if necessary.

Confined space regulations also require that monitoring instruments are tested and calibrated according to the equipment manufacturer's recommendations. The Ventis, coupled with the DS2 Docking Station™ for automated test, calibration and record keeping functions, provides the complete confined space solution for any industry.

Contact your Industrial Scientific representative to determine the Ventis configuration that is appropriate for your confined space application. You can also build and price your Ventis online using the Ventis instrument builder.

[www.indsci.com/ventisbuilder](http://www.indsci.com/ventisbuilder)



**INDUSTRIAL  
SCIENTIFIC**

[www.indsci.com](http://www.indsci.com)

Distribuito da:  
Zetalab s.r.l.

**Zetalab**

Via Castelfidardo, 11 - 35141 Padova  
Telefono 049 2021144 - Fax 049 2021143  
Internet: [www.zetalab.it](http://www.zetalab.it) - e-mail: [info@zetalab.it](mailto:info@zetalab.it)