Confined Space Monitoring with the Ventis® MX4

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 MX4 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 MX4 can be configured with an integral sampling pump to draw remote gas samples from up to 100 feet away. Alternatively, it can be fitted with the Ventis® Slide-on Pump to draw samples from up to 50 feet. A lithium-ion rechargeable battery pack enables the Ventis MX4 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 MX4 can be coupled with the V-Cal™ for ease in calibration, bump testing, and more. It can also be coupled with the DSX™ Docking Station for automated bump testing, calibration, and recordkeeping.

Contact your Industrial Scientific representative to determine the Ventis MX4 configuration that is appropriate for your confined space application. You can also build and price your Ventis MX4 online using the Ventis MX4 instrument builder: www.indsci.com/ventisbuilder

NOTE: Class II approval, Groups F G (Carbonaceous and Grain dust)