

Fixed-Point Gas Monitoring solutions



Industrial Scientific fixed-point gas detection systems provide continuous monitoring for the most hazardous environments. Offering stand-alone or facility-wide protection with relays to shut down systems or activate alarms, fixed-point monitors can provide a cost effective solution for your specific needs. Our fixed-point systems can even be configured for wireless monitoring, delivering maximum flexibility for your changing needs.

iTrans™

Next generation iTrans™ fixed-point gas monitors provide 1 or 2 points of detection, in any combination of sensors, from a single electronics head. The four wire system is capable of accommodating more than 200 transmitters in RS485 bus configuration. iTrans monitors utilize safety features including automatic sensor recognition, on-board sensor life indicators, zero and cal fault protection, access code security, and simple non-intrusive calibration. Capable of stand-alone operation or multi-point system configuration, iTrans can transmit a 4-20 mA signal or ModBus RTU digital output to any control device or PLC.

Single/Dual Sensors

- Single electronics package runs one or two sensors
- 4-20 mA analog & ModBus output
- Remote sensor capability
- Optional on-board relays
- Non-intrusive calibration



Controller

- Continuously monitors up to 16 channels
- High-contrast LCD display
- 16 relay outputs
- Weather, tamper resistant, lockable NEMA 4X enclosure
- CSA and NTRL/C approvals

8000 Controller Fixed-Point Monitoring System

Our 8000 Controller is a multi-channel, adaptable device that monitors up to sixteen 4-20 mA transmitters. The 8000 Controller is easily programmed with the press of a few keys, and can simultaneously process multiple signals. Available sensors include a wide range of gases. The unit, with its on-board contacts to activate external devices like lights, horns, fans or pumps, is fully programmable to adapt as your monitoring needs change.

4800 Controller Fixed Point Monitoring System

The 4800 Controller is a versatile controller capable of monitoring up to 48 analog and 72 digital ModBus inputs. On-board relays with programmable time delays control alarms, fans, horns, etc. when alarm conditions are met. With a simple user interface, the relays can be programmed to activate from multiple channels, or multiple relays can be programmed to a single channel. The 4800 Controller can be set up as a Modbus RTU master unit to monitor digital input signals, or it can be set up as a Modbus RTU slave device to communicate with SCADA, HMI, and PLC controlled systems.

Controller

- 8-48 analog input channels
- Up to 72 digital ModBus inputs
- Programmable as ModBus RTU master or slave device
- Independent relay activation
- Easy channel configuration



Wireless Systems

- Reduced costs, faster installation
- Uses advanced, spread-spectrum wireless technology.
- Eliminates need for extensive wiring
- Monitor from extended distances
- Interference-free reliability

Wit System™ Wireless Monitoring

Using Industrial Scientific's reliable fixed-point monitors, the WIT System adds advanced wireless communications to slash wiring costs while adding unlimited flexibility for your changing gas detection needs. Spread-spectrum technology requires no FCC licensing and ensures interference-free, digital communications between monitors and controllers – ideal for remote or portable applications. Optional solar panels provide alternative power sources for remote outdoor sites.



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RS5100 Carbon Monoxide Monitor

The RS5100 Carbon Monoxide Monitor is an exceptionally accurate fixed-point monitor designed for even the toughest industrial worksites. Typical applications include parking garages, warehouses, baking facilities, steel mills or anywhere else carbon monoxide may pose a threat. An internal lamp illuminates the easy-access controls in dark areas to simplify the calibration process. The unit utilizes a plug-in electrochemical sensor housed in a protective stainless steel cover.

Carbon Monoxide

- Measures CO from 0-1999 ppm
- Rugged and reliable
- Easy-to-read, large LED display
- Optional strobes and horns
- 16-gauge steel case
- 110 VAC operation
- CSA approval

6400 Series Carbon Dioxide Monitors

The 6400 Series monitors from Industrial Scientific utilize a non-dispersive infrared (NDIR) sensor for superior CO₂ monitoring. The units offer a variety of measurement ranges from 0-10% of volume and feature a bright LED display. A standard 4-20 mA current allows transmission of gas concentration readings to a control device.

Carbon Dioxide

- Ideal for food processing or indoor air quality applications
- Infrared (NDIR) CO₂ sensor
- Measurement range 0-10% of volume (other ranges avail.)
- 4-20 mA output standard



Now available for AMMONIA monitoring



Low-Cost Monitoring

- Ideal for commercial, light industrial or institutional applications
- Monitor CO, Cl₂, H₂S, NO₂, SO₂, O₂, NH₃, NO, ClO₂, HCN, HCl or PH₃
- CSA approval

AirAware™ Series Monitors

AirAware™ provides a low-cost monitoring solution for toxic gases in light industrial or commercial environments. Designed for simple installation and use, AirAware offers many of the features found in our industrial grade monitors, such as on-board relays, a bright LED display, dual stage audio/visual alarms and intuitive calibration. AirAware is capable of monitoring one of 12 gases and can be powered by a wall outlet or wired to a control device. A 4-20 mA output is also available.

Fixed-Point Monitoring System Accessories

Industrial Scientific offers a comprehensive line of accessories specifically designed to work with our fixed-point monitoring systems. Available accessories include remote alarms, splash guards, power supplies, ultra-brite strobes, remote displays and a full line of calibration equipment. A complete selection of certified NIST-traceable (National Institute of Standards & Technology) calibration gases is also offered.

Accessories

- Remote alarms
- Splash guards
- Ultra-bright strobes
- Calibration equipment
- Power supplies
- Remote displays
- Sample pumps



Installations

- Worry-free industrial and commercial installations
- Custom on-site evaluations
- Solar-powered and wireless installations
- Employee instruction and training

Start-Up and Commissioning Services

Industrial Scientific and its select distributors offer complete worry-free set-up and installation services for all of our fixed-point systems, including solar, wireless, and AirAware™ monitors. Our expertly trained technicians ensure that your systems are installed correctly and in proper operating order for optimum performance and efficiency. We even provide the necessary training so that employees are never left guessing about proper maintenance and calibration techniques.