

SE
SENSOR
ELECTRONICS



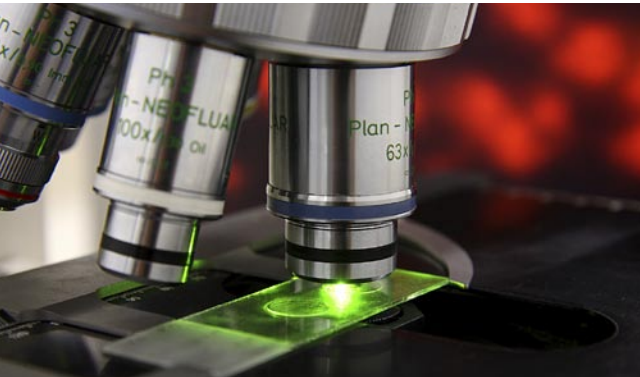
Keeping you safe. Worldwide.

**YOUR EXPERTS IN
GAS DETECTION**



MILLENIUM INFRARED GAS DETECTOR

- Detects hydrocarbon gases or carbon dioxide
- Multi-beam (patented) design is virtually maintenance free and reliable
- Compact and explosion proof stainless steel housing
- No mirrors or beam splitters
- Barometric pressure compensation provides accurate measurement at any altitude and pressure
- Standalone 4-20mA operation or can be coupled with SEC 3100 Universal Transmitter



We don't just claim to be gas detection experts...
WE PROVE IT.



SIGNATURE DUAL GAS ANALYZER

- Continuous monitoring for 2 different gas vapors; (EtO/H2O, Hydrocarbon/H2O, or CO2/Hydrocarbon)
- Infrared Sensing Technology—no mirrors or reflecting surfaces
- CO2/Hydrocarbon; injection monitors
- Pressure/Temperature compensated



SIGNATURE PROCESS GAS ANALYZER

- Continuous monitoring of EtO, hydrocarbon or carbon dioxide
- Designed for non-extractive sampling
- Infrared self-compensating optical bench (Patented)
- Explosion proof



SEC 3000 GAS DETECTOR

- Detects toxic gases and oxygen concentrations
- "Hot Swap" sensor with "Gas Free" calibration
- Intrinsically safe / explosion proof
- 316 Stainless steel construction
- Sensors for over 100 gases
- Standalone 4-20mA operation or can be coupled with SEC 3100 Universal Transmitter



SEC 3100 UNIVERSAL TRANSMITTER

- Memory Card data logging
- Communication I/O, RS-485, Relays, 4-20mA
- Non-intrusive programming and calibration
- Explosion proof
- Compatible with SEC 3000 & SEC Millennium series gas detectors



SEC 3100 DIN UNIVERSAL TRANSMITTER

- DIN rail mount or surface mount
- Compatible with SEC 3000 and SEC Millennium series gas detectors
- Optional relays and memory card data logging



SEC 3500 OPERATOR INTERFACE

- RS-485 Modbus® RTU communication with SEC 3100 Universal Transmitter
- Intuitive graphical interface of entire gas detection system
- IO-Base-T/100 Base – TX Ethernet Port
- Remote web access, secure monitoring and control
- Actuates alarm and control devices



SEC 3500 RELAY CONTROLLER

- Connect to SEC 3500 OI via Modbus® RS-485 network
- 8 and 16 point addressable modules
- Individual 8 AMP dry relay contacts SPDT



INDUSTRIES SERVED

- | | | |
|--------------------|----------------------|----------------------|
| • Petrochemical | • Water & Wastewater | • Landfill |
| • Compost | • Parking Garages | • Ethanol |
| • Semiconductor | • Chemical | • Aviation |
| • Mining | • Nuclear | • Beverage |
| • Pulp & Paper | • Fertilizer | • Methane Mitigation |
| • Oil & Gas | • Tunnel | • Sterilization |
| • Buildings | • Medical | • Biodiesel |
| • Automotive | • Refrigeration | • Offshore |
| • Engine Test Cell | • Pharmaceutical | |
| • LNG & LPG | | |



MEMORY CARD READER

- Transfers SEC 3100 memory card information to a computer
- Memory card data is converted to useable format via Memory Card Reader software
- Memory Card Reader software is downloadable from SEC website



SEC 3100 LIM (LOGIC INTERFACE MODULE)

- Logic Interface Module "LIM" interfaces non-SEC devices to Modbus® network
- Accepts low and high alarm input contact closures
- Programmable device names displayed on SEC 3100 LCD



SEC 3100 ISO REPEATER

- Extends distance and increases number of devices to RS-485 network
- Isolated (1500 Volt) bidirectional data flow
- Transient suppression on RS-485 data lines



SEC 3100 AIM (ANALOG INPUT MODULE)

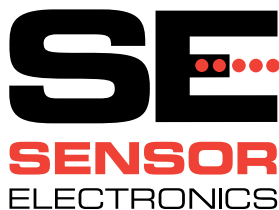
- Analog Input Module "AIM" interfaces non-SEC 4-20mA devices to Modbus® network
- Accepts one analog 4-20mA input signal
- Programmable device names displayed on SEC 3100 LCD



GASES DETECTED

- | | | |
|------------------------|---------------------|--------------------------|
| • Ammonia | • Ethylene | • Nitrogen Dioxide |
| • Alcohol | • Ethylene Oxide | • Oxygen |
| • Arsine | • Fluorine | • Ozone |
| • Boron Trichloride | • Gasoline | • Pentane |
| • Boron Trifluoride | • Germane | • Phosphine |
| • Carbon Dioxide | • Green Earth | • Propane |
| • Carbon Monoxide | • Hydrogen | • Propylene |
| • Chlorine | • Hydrogen Bromide | • Silane |
| • Chlorine Trifluoride | • Hydrogen Chloride | • Silicon Tetrachloride |
| • Cyclopentane | • Hydrogen Fluoride | • Silicon Tetrafluoride |
| • Deuterium | • Hydrogen Sulfide | • Sulfur Dioxide |
| • DF 2000 | • Isopropyl Alcohol | • Sulfur Hexafluoride |
| • Diborane | • Jet Fuel | • Titanium Tetrachloride |
| • Dichlorosilane | • Methane | • Tungsten Hexafluoride |
| • Diesel | • Methanol | |
| • Disilane | • n-Butane | |
| • Ethanol | • Nitric Oxide | |

Note: This list is not all-inclusive. Sensor Electronics' gas detectors can be calibrated for most hydrocarbons, provided a calibration gas is available. For more information, please contact Sensor Electronics.



5500 Lincoln Drive • Minneapolis, MN 55436
Phone: 952-938-9486 • Fax: 952-938-9617
 Toll Free: 800-285-3651 • www.sensorelectronics.com