

SE
SENSOR
ELECTRONICS



Keeping you safe. Worldwide.

**YOUR EXPERTS IN
GAS DETECTION**



MILLENNIUM 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 or SEC 3120 Dual 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 or SEC 3120 Dual 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 and SEC IRevolution series gas detectors



SEC 3100 DIN UNIVERSAL TRANSMITTER

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



3120 UNIVERSAL TRANSMITTER

- Dual Sensor Interface Compatibility
- Compatible with SEC 3000, SEC Millennium and SEC IRevolution series gas detectors
- Memory stick data logging
- Communication I/O, RS-485, Relays, 4-20 mA
- Non-intrusive programming and calibration
- Explosion proof



3120 DIN TRANSMITTER

- DIN Rail Mount
- Dual Sensor Interface Compatibility
- Optional relays and memory card data logging
- Compatible with SEC 3000, SEC Millennium and SEC IRevolution series gas detectors

INDUSTRIES SERVED

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





SEC 3500 OPERATOR INTERFACE

- RS-485 Modbus® RTU communication with SEC 3100 Universal Transmitter and SEC 3120 Dual 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



SEC 3100 LIM/AIM

- Logic Interface Module "LIM" interfaces non-SEC devices to Modbus® network
- LIM accepts low and high alarm input contact closures
- Analog Input Module "AIM" interfaces non-SEC 4-20mA devices to Modbus® network
- AIM accepts one analog 4-20mA input signal
- Programmable device names displayed on SEC 3100 LCD

GASES DETECTED

- | | | |
|------------------------|------------------------|--------------------------|
| • Acetone | • Ethanol | • Methyl Amyl Ketone |
| • Ammonia | • Ethylene | • n-Butane |
| • Alcohol | • Ethylene Oxide | • Nitric Oxide |
| • Arsine | • Fluorine | • Nitrogen Dioxide |
| • Boron Trichloride | • Formaldehyde | • Oxygen |
| • Boron Trifluoride | • Gasoline | • Ozone |
| • Carbon Dioxide | • Germane | • Pentane |
| • Carbon Monoxide | • Green Earth | • PFC Gases |
| • Chlorine | • Heptane | • Phosphine |
| • Chlorine Dioxide | • Hexane | • Propane |
| • Chlorine Trifluoride | • Hydrogen | • Propylene |
| • Cyclohexane | • Hydrogen Bromide | • p-Xylene |
| • Cyclopentane | • Hydrogen Chloride | • Silane |
| • Deuterium | • Hydrogen Fluoride | • Silicon Tetrachloride |
| • DF 2000 | • Hydrogen Peroxide | • Silicon Tetrafluoride |
| • Diborane | • Hydrogen Sulfide | • Sulfur Dioxide |
| • Dichlorosilane | • Isobutyl Isobutyrate | • Sulfur Hexafluoride |
| • Diesel | • Isopropyl Alcohol | • Tert-butyl Acetate |
| • Dimethyl Ether | • Jet Fuel | • Titanium Tetrachloride |
| • Disilane | • Methane | • Toluene |
| • Ethane | • Methanol | • Tungsten Hexafluoride |



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



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