

SE
SENSOR
ELECTRONICS



Keeping you safe. Worldwide.

**YOUR EXPERTS IN
GAS DETECTION**



INFRARED GAS DETECTORS

- Detects hydrocarbon gases , NH₃, PFC, SF₆, CO₂ and others
- 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



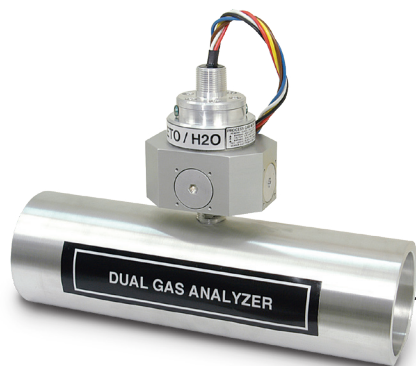
SAMPLE DRAW SYSTEMS

- Modular design makes sensor interchangeable – SEC 3000 Toxic, SEC IREvolution PFC – SEC IREvolution HC – SEC IREvolution CO₂
- Explosion Proof and Corrosion Resistant
- Sample flow monitoring (Low or High flow alarm)
- Stand-alone system or connect to SEC 3100 or SEC 3120 Transmitters
- Flow housing can accommodate one sensor module or can be used as a stand-alone sample draw pump



SEC 3000/3300 GAS DETECTOR

- Detects toxic gases or 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
- Patented self-check circuitry in SEC 3300



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
- 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



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

WE PROVE IT.



SEC 3100/3120 UNIVERSAL TRANSMITTER

- Optional relays and memory card data logging
- Communication I/O, RS-485, 4-20mA
- Non-intrusive programming and calibration
- Explosion proof
- Compatible with SEC 3000, SEC 3300, SEC Millenium, SEC IREvolution series gas detectors ,and SEC Sample Draw System



SEC 3100/3120 DIN UNIVERSAL TRANSMITTER

- DIN rail mount or surface mount
- Compatible with SEC 3000, SEC 3300, SEC Millenium, SEC IREvolution series gas detectors ,and SEC Sample Draw System.
- Optional relays and memory card data logging
- Communication I/O, RS-485, 4-20mA



SEC 3120 DIN TRANSMITTER BRS

- DIN Rail Mount
- (4) Four Logic Inputs
- RS-485 Communication
- Accepts digital inputs



INDUSTRIES SERVED

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



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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SEC 3500 OPERATOR INTERFACE

- RS-485 Modbus® RTU communication with SEC 3100 Universal Transmitter and SEC 3120 Dual Transmitter, and SEC 3120 BRS
- IO-Base-T/100 Base – TX Ethernet Port
- Remote web access, secure monitoring and control
- Actuates alarm and control devices with programmable relays
- Data logging available

SEC 3500 REMOTE DISPLAY

- 15-inch display with Intuitive Graphical Interface
- Resistive Analog Touchscreen
- Up to Six (6) RS-232/422/485 Communications Ports
- Built-in Web Server and FTP Server/Client

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 |

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