

## Fixed Gas Detector, Sample-Draw Transmitter

For gas sample extraction and detection



### Key Features

- Reliable method for sampling difficult to access areas
- Accepts sample lines up to 100 ft.
- Flow meter with low-flow indicator
- Robust pump operates on 12 or 24 Vdc, thereby reducing installation costs
- NEMA 4X, weather & corrosion resistant housing

The Thermo Scientific Fixed Gas Detector, Sample-Draw Transmitter allows users to extract a gas sample from deep shafts, tall ceilings, wells, pits, and many other locations where it is either difficult or impossible to place a diffusion sensor. An internal motorized pump transports gas samples to the sensor via sample tubing. This instrument can be configured for the detection of hydrocarbons, oxygen or other toxic gases in a wide variety of applications.

Applications include:

- Wastewater Treatment - barscreen rooms, effluent wetwells, sewage lift stations, chlorine treatment/storage areas, digesters, permit-required confined spaces, and grit settling area monitoring

- Water Treatment - chlorine or ozone storage and delivery sumps and pits
- Semiconductor Manufacturing - as bunker, tool, gas jungle, gas cabinet, exhaust duct, and cleanroom monitoring
- Automotive Manufacturing - engine and emission testing bay, paint booth, and paint robot monitoring
- Meat Packing - cold storage, flash freezers, and warehouse monitoring
- Refineries - sulfur recovery unit and HF Alky unit monitoring
- Aerospace Industry - cleanroom and cryogenic research lab monitoring

# Fixed Gas Detector, Sample Draw Transmitter

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

## Product Specifications

<b>Sensors</b>	Catalytic: combustible Electrochemical: AsH <sub>3</sub> , B <sub>2</sub> H <sub>6</sub> , Cl <sub>2</sub> , ClO <sub>2</sub> , CO, F <sub>2</sub> , HCl, HCN, HF, H <sub>2</sub> S, NH <sub>3</sub> , NO, NO <sub>2</sub> , O <sub>2</sub> , O <sub>3</sub> , PH <sub>3</sub> , SiH <sub>4</sub> , or SO <sub>2</sub>
<b>Accuracy</b>	±10% of reading
<b>Analog Output</b>	4 to 20 mA
<b>Repeatability</b>	±5% of reading
<b>Operating Temperature</b>	-4 °F to 113 °F (-20 °C to 45 °C)
<b>Humidity</b>	0 to 95% RH, non-condensing
<b>Power Consumption</b>	9 watts (combustible), 5 watts (toxic/O <sub>2</sub> )
<b>Input Power</b>	12 Vdc or 24 Vdc
<b>Dimensions</b>	10 in (254 mm) L x 4.5 in (114 mm) H x 7.15 in (181 mm) W
<b>Response Time</b>	90% in less than 60 seconds (except combustibles, HCL, & HF) 90% in less than 70 seconds (HCL) 90% in less than 90 seconds (HF) 90% in less than 30 seconds (combustibles)
<b>Weight</b>	4 lbs (1.8 kg)
<b>Case Materials</b>	Fiberglass NEMA 4X enclosure
<b>Warranty</b>	One year (materials and workmanship)

Gas	Formula	Standard Range
Ammonia	NH <sub>3</sub>	0 to 100 ppm
Arsine	AsH <sub>3</sub>	0 to 1 ppm
Carbon Monoxide	CO	0 to 500 ppm
Chlorine	Cl <sub>2</sub>	0 to 10 ppm
Chlorine Dioxide	ClO <sub>2</sub>	0 to 2 ppm
Diborane	B <sub>2</sub> H <sub>6</sub>	0 to 1 ppm
Fluorine	F <sub>2</sub>	0 to 10 ppm
Hydrogen Chloride	HCl	0 to 30 ppm
Hydrogen Cyanide	HCN	0 to 50 ppm
Hydrogen Fluoride	HF	0 to 10 ppm
Hydrogen Sulfide	H <sub>2</sub> S	0 to 100 ppm
Nitric Oxide	NO	0 to 100 ppm
Nitrogen Dioxide	NO <sub>2</sub>	0 to 20 ppm
Oxygen	O <sub>2</sub>	0-30% vol
Ozone	O <sub>3</sub>	0 to 1 ppm
Phosphine	PH <sub>3</sub>	0 to 1 ppm
Silane	SiH <sub>4</sub>	0 to 20 ppm
Sulfur Dioxide	SO <sub>2</sub>	0 to 20 ppm
Combustible Gases		0 to 100% LEL

This specification sheet is for informational purposes only and is subject to change without notice. Thermo Fisher Scientific makes no warranties, expressed or implied, in this product summary.  
© 2009 Thermo Fisher Scientific, Inc. All rights reserved Thermo Fisher Scientific, Inc.

This product is manufactured in a plant whose quality management system is ISO 9001 certified.

**Environmental  
Instruments Division**  
Air Quality Instruments

27 Forge Parkway  
Franklin, MA 02038 USA

(866) 282-0430  
(508) 520-0430  
(508) 520-1460 fax

[www.thermo.com/ih](http://www.thermo.com/ih)

Lit\_SDWTAQI\_08/09

**Thermo**  
SCIENTIFIC