

## Sample-Draw Transmitter™

Configurable for detection of hydrocarbon, oxygen, or other toxic gases

The Sample-Draw Transmitter is a single gas detector that 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.



**Single gas transmitter ideal for the detection of combustible, 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>**

### Optional Accessories

- Calibration kit
- Hydrophobic filters
- Self draining moisture trap

### Features

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

### 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** - gas 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
- **Chemical & Petrochemical**
- **Refineries** - sulfur recovery unit and HF Alky unit monitoring
- **Aerospace Industry** - cleanroom and cryogenic research lab monitoring

## Single gas detector for gas sample extraction

The Sample-Draw Transmitter is part of Thermo's complete gas detection family, which includes single gas portable monitors to multi-point integrated systems. You can be confident that our versatile solutions and worldwide customer support will ensure you maximum productivity.

### Sensors

- 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>

### Accuracy

±10% of reading

### Analog Output

4 to 20 mA

### Repeatability

±5% of reading

### Operating Temperature

-4°F to 113°F (-20°C to 45°C)

### Humidity

0 to 95% RH, non-condensing

### Power Consumption

- 9 watts (combustible)
- 5 watts (toxic/O<sub>2</sub>)

### Input Power

12 VDC or 24 VDC

### Dimensions

10 in (254 mm) L x  
4.5 in (114 mm) H x  
7.15 in (181 mm) W

### Weight

4 lbs (1.8 kg)

### Case Materials

Fiberglass NEMA 4X enclosure

### Warranty

One year (materials and workmanship)

Gas	Sensor Type	Formula	Standard Range
Ammonia	Electrochemical	NH <sub>3</sub>	0 to 100 ppm
Arsine		AsH <sub>3</sub>	0 to 1.00 ppm
Carbon monoxide		CO	0 to 500 ppm
Chlorine		Cl <sub>2</sub>	0 to 10.0 ppm
Chlorine dioxide		ClO <sub>2</sub>	0 to 2.00 ppm
Combustible	Catalytic		0 to 100% LEL
			0 to 5,000 ppm
Diborane	Electrochemical	B <sub>2</sub> H <sub>6</sub>	0 to 1.00 ppm
Fluorine		F <sub>2</sub>	0 to 10.0 ppm
Hydrogen chloride		HCl	0 to 30.0 ppm
Hydrogen cyanide		HCN	0 to 50.0 ppm
Hydrogen fluoride		HF	0 to 10.0 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 20.0 ppm
Oxygen		O <sub>2</sub>	0 to 30.0% Vol.
Ozone		O <sub>3</sub>	0 to 1.0 ppm
Phosphine		PH <sub>3</sub>	0 to 1.0 ppm
Silane		SiH <sub>4</sub>	0 to 20.0 ppm
Sulfur dioxide		SO <sub>2</sub>	0 to 20.0 ppm

### Response Time

- 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)

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