

GAS DETECTOR HEAD FOR SEMICONDUCTOR GASES

Gas Detection for Life

GD-77D Series



Features

- Digital display with LCD back light
- Sensor information & calibration stored within sensor memory
- Several data transmission options available Zero suppression and correction
- Smaller housing design for narrow wall mounting locations
- Self-diagnostic functions by microprocessor
- Electrochemical sensors for most semiconductor gases
- Built-in sampling pump
- Easy replacement of pump and sensor
- Two alarm levels, plus trouble alarm with relays
- Optional NEMA 4X housing available

Applications

- Semiconductor
- Chemical Processing
- Laboratory
- Manufacturing

The GD-K77D is a complete sample drawing gas monitor, including digital readout and alarm relays. A new gas sensor technology using an intelligent sensor for remote location calibration and setup is used. The new GD-K77D sensors are designed to provide a longer time period between calibrations.

Calibration intervals have been cut in half to 12 months of on-line service which equates to reduced maintenance cost. In addition, the sensors can be calibrated away from the gas detector installation, for example in a service area or offsite. This eliminates the inconvenience of having calibration gases in the monitoring area. GD-K77D easily connects to an existing PLC system and is ideal for applications needing a local readout or where a relay control is needed.

Technical Specifications:

Detection method	Electrochemical cell	Operating Conditions	0 – 40°C, 30 – 85% RH
Sampling method	Sample draw	Output	4-20mA
Sample flow rate	0.5L/min	Self diagnostic function	Low flow, trouble, system failure
Supply Voltage	24 Volts DC ± 10%, Approx 10W	Dimensions in mm	170 (H) x 70 (W) x 153 (D)

Available sensors (many others available):

Ammonia (NH₃)	0 - 75.0 ppm	Germane (GeH₄)	0 - 0.8 ppm	Ozone (O₃)	0 - 1.0 ppm
Arsine (AsH₃)	0 - 0.20 ppm	Hydrogen Bromide (HBr)	0 - 9.0 ppm	Phosphine (PH₃)	0 - 1.0 ppm
Arsenic Trichloride (AsCl₃)	0 - 15.0 ppm	Hydrogen Chloride (HCl)	0 - 15.0 ppm	Phosphorus Oxychloride (POCl₃)	0 - 15.0 ppm
Boron Trichloride (BCl₃)	0 - 15.0 ppm	Hydrogen Fluoride (HF)	0 - 9.0 ppm	Phosphorus Pentafluoride (PF₅)	0 - 9.0 ppm
Bromine (Br₂)	0 - 1.0 ppm	Hydrogen Iodine (HI)	0 - 5.0 ppm	Phosphorus Trichloride (PCL₃)	0 - 15.0 ppm
Chlorine (Cl₂)	0 - 3.0 ppm	Hydrogen Selenide (H₂Se)	0 - 0.2 ppm	Phosphorus Trifluoride (PF₃)	0 - 10.0 ppm
Chlorine Trifluoride (ClF₃)	0 - 1.00 ppm	Hydrogen Sulfide (H₂S)	0 - 100.0 ppm	Silane (SiH₄)	0 - 15.0 ppm
Diborane (B₂H₆)	0 - 0.3 ppm	Iodine (I₂)	0 - 1.0 ppm	Sulfur Tetrafluoride (SF₄)	0 - 9.0 ppm
Disilane (Si₂H₆)	0 - 15.0 ppm	Nitric Oxide (NO)	0 - 100.0 ppm	Tantalum Fluoride (TaF₅)	0 - 9.0 ppm
Fluorine (F₂)	0 - 6.0 ppm	Nitrogen Dioxide (NO₂)	0 - 15.0 ppm	Trichlorosilane (SiHCL₃)	0 - 15.0 ppm

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