SMART SENSOR/TRANSMITTER WITH READOUT

RKI INSTRUMENTS

Gas Detection For Life

GD-K71D

Features

- LED digital display
- Sensor information and calibration is stored within sensor memory
- Several data transmission options available
- Zero suppression and correction
- 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 with relays, plus trouble alarm
- 24VDC operation
- Optional NEMA 4X housing available

Applications

- Semiconductor
- Chemical Processing
- Laboratory
- Manufacturing
- HVAC

The GD-K71D 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-K71D sensors are designed to provide a longer time period between calibrations. Calibration intervals have been extended 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 off site. This eliminates the inconvenience of having calibration gases in the fab or monitoring location. GD-K71D easily connects to an existing PLC system and is ideal for applications needing a local readout or where a relay control is needed. The automatic zero correction software provides excellent long term stability and minimizes false alarms due to zero drift.

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World Leader In Gas Detection & Sensor Technology
www.rkiinstruments.com

Model	GD-K71D
Detection principle	Electrochemical cell (MOS for GD-V77D H2)
Detection method	Sample drawing type
Signal transmission	Analog transmission (4-20 mA) digital transmission (optional DeviceNet)
Display	Digital LED display of gas concentration, 4 digits
Gas alarms	Two alarm levels: 1st alarm (Yellow LED), 2nd alarm (Red LED)
Relay outputs for remote alarms	Dry contact relay for 1st, 2nd, and trouble alarms (Normally Open or Normally Closed)
Alarm response time	Approximately 10 - 15 seconds when exposed to gas concentration of 1.6 times alarm level for most gases (Same as T60)
Self diagnostic function	Trouble, low flow, system failure, communication error, and zero correction
Operation temp. & humidity	0 ~ 40ºC, 30 ~ 85% RH
Applicable cable	Shielded cable 3C, 1.25 sq (18 gauge)
Enclosure	Wall mounting
Power	24 VDC +/- 10%, Approx. 10W
Dimensions	2.8" (W) x 6.7" (H) x 6.0" (D), approximately 4.4 lbs 70 mm (W) x 170 mm (H) x 153 mm (D), approximately 2 kg

Partial List Of Detectable Gases
Many other gases or ranges available. Contact RKI for gases or ranges not listed

Ammonia (NH3)	0 - 75.0 ppm
Arsine (AsH3)	0 - 0.20 ppm
Chlorine (Cl2)	0 - 3.00 ppm
Chlorine Dioxide (ClO2)	0 - 1.00 ppm
Chlorine Trifluoride (ClF3)	0 - 1.00 ppm
Diborane (B2H6)	0 - 0.30 ppm
Fluorine (F2)	0 - 3.00 ppm
Germane (GeH4)	0 - 0.60 ppm
Hydrogen (H2)	0 - 2000 ppm
Hydrogen Bromide (HBr)	0 - 9.00 ppm
Hydrogen Cyanide (HCN)	0 - 30.0 ppm
Hydrogen Chloride (HCl)	0 - 15.0 ppm
Hydrogen Fluoride (HF)	0 - 9.00 ppm
Hydrogen Sulfide (H2S)	0 - 30.0 ppm (optional 0-1.00 ppm)
Nitric Oxide (NO)	0 - 100 ppm
Nitrogen Dioxide (NO2)	0 - 15.0 ppm
Ozone (O3)	0 - 0.60 ppm
Phosphine (PH3)	0 - 1.00 ppm
Silane (SiH4)	0 - 15.0 ppm
Sulfur Dioxide (SO2)	0 - 6.00 ppm

* Specifications subject to change without notice.

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