RKI INSTRUMENTS

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35 Vantage Point Drive Rochester, NY 14624
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SINGLE TOXIC GAS MONITOR

Gas Detection For Life

SC-01 Model

Features

- Smart interchangeable sensors
- Wide range of toxic gases
- Unique extender cable for remote monitoring
- Compact (2.5 x 5.2 x 1.2 in.)
- Lightweight, 7.6 ounces
- 250 hours of continuous operation
- Operates on 2 "AA" alkaline batteries
- Audible / visual / vibration alarms
- Datalogging standard
- Impact resistant protective rubber boot
- Intrinsically safe, CSA, C/US classified

Applications

- Utilities
- Personal monitoring
- Refineries / petrochemical
- Chemical plants
- Hazmat response
- Water / wastewater treatment
- Semiconductor plants

Built around RKI's latest smart sensor technology, the SC-01 is a versatile single toxic gas monitor. The smart sensors are interchangeable, with the SC-01 automatically recognizing any sensor change without any set up or configuration changes. The sensor's calibration information also stays with each sensor. Weighing only 7.6 ounces, it has many features which set it apart from the competition. For example, it offers sensors for Arsine (AsH3), Ammonia (NH3), Carbon Monoxide (CO), Chlorine (Cl2), Hydrogen Cyanide (HCN), Hydrogen Sulfide (H2S), Phosphine (PH3), and Sulfur Dioxide (SO2). The SC-01's unique extender cable allows the sensor to be attached to the end of a 10 foot cable for remote monitoring and quick response.

The SC-01's large LCD display shows the gas reading, battery level, current time, and will automatically backlight in alarm conditions. Standard alarm types include vibration, visual, and audible alarms that can be set to latching or self-resetting. Controlled by a microprocessor, the SC-01 continuously checks itself for sensor connections, low battery and circuit trouble. The batteries are simple to replace, requiring no tools to access the battery compartment. One set of AA alkaline batteries provides continuous operation for over 250 hours.

The SC-01 is equipped with datalogging capability as a standard feature which communicates through an IR port with an optional Windows® based datalogging software program. Calibration intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired.

Sensor Type	ESM-01 smart, plug in style sensors
Detection Principle	Electrochemical
Accuracy Statement	± 10% of reading or ± 5% of full scale (which ever is greater)
Response Time (T90)	60 Seconds
Indication Accuracy	Maximum variance +/- 10% of full scale
Sampling Method	Diffusion, optional sensor extender cable
Display	Digital LCD, auto backlight during alarm
Alarm Operation	Latching and reset function
Alarm Types	Gas alarms: 1st, 2nd, STEL, TWA and OVER Trouble alarms: Sensor connection, low battery, circuit trouble, and calibration error
Alarm Methods	Gas alarms: Blinking LED array, intermittent buzzer, blinking gas values, vibration Trouble alarms: Blinking LED array, quick intermittent buzzer, display of trouble, vibration
Operating Temp. & Humidity	14°F to 104°F (-10°C to +40°C) Below 95% RH (non-condensing)
Continuous Operation	More than 250 hours (at 25°C, no alarm)
Power Source	2 "AA" Alkaline dry cell batteries
Safety Rating	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D
Dimension & Weight	2.5" W x 5.2" H x 1.2" D (63 W x 131 H x 31 D mm) 7.6 ounces (215 g)
Case Material	Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot
Controls	Three buttons: AIR / UP, DISPLAY / DOWN, & POWER
Standard Accessories	• Alligator clip • Impact resistant rubber boot • AA size alkaline batteries (2 each) • Manual
Optional Accessories	• Belt clip • Datalogging software for PC • Extender cable 10ft (3m)
Warranty	One year material and workmanship

Ordering Infomation		
Part Number	**Gas**	**Range**
73-0050RK-XXX = SC-01 with an alligator clip 73-0051RK-XXX = SC-01 with a belt clip		
73-0050RK-AsH3	Arsine (AsH3)	0 - 1.5 ppm
73-0050RK-NH3	Ammonia (NH3)	0 - 75 ppm
73-0050RK-CO	Carbon Monoxide (CO)	0 - 75 ppm
73-0050RK-CL2	Chlorine (Cl2)	0 - 3.00 ppm
73-0050RK-HCN	Hydrogen Cyanide	0 - 10 ppm
73-0050RK-H2S	Hydrogen Sulfide (H2S)	0 - 30.0 ppm
73-0050RK-PH3	Phosphine (PH3)	0 - 1.00 ppm
73-0050RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm

10 Foot
Extender Cable

Specifications subject to change without notice.

A9812   ISO 9001

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