

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, 131 (H) x 63 (W) x 31 mm (D) approx
- Lightweight, 215g
- 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 Ammonia (NH₃), Carbon Monoxide (CO), Chlorine (Cl₂), 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.



RIKEN KEIKI

Sensor Type	ESM-01 smart, plug in style sensors	
Detection Principle	Electrochemical	
Response Time (T90)	60 seconds	
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	-10 °C to +40 °C. Below 95% RH (non-condensing)	
Continuous Operation	More than 250 hours (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	131 (H) x 63 (W) x 31 (D) mm, 215 g	
Case Material	Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot	
Controls	Three buttons: POWER, DISPLAY, AIR	
Standard Accessories	<ul style="list-style-type: none"> • Alligator clip • AA size alkaline batteries (2 each) 	<ul style="list-style-type: none"> • Impact resistant rubber boot • Manual
Optional Accessories	<ul style="list-style-type: none"> • Belt clip • Extender cable 3m 	<ul style="list-style-type: none"> • Datalogging software for PC
Warranty	One year material and workmanship	

Ordering Information		
Part Number	Gas	Range
R73-0050RK-NH3	Ammonia (NH3)	0 - 75 ppm
R73-0050RK-CO	Carbon Monoxide (CO)	0 - 75 ppm
R73-0050RK-CL2	Chlorine (CL2)	0 - 3.00 ppm
R73-0050RK-H2S	Hydrogen Sulfide (H2S)	0 - 30.0 ppm
R73-0050RK-PH3	Phosphine	0 - 1.00 ppm
R73-0050RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm
R73-0050RK-GEH4	Germane GEH4	0 - 1.5 ppm
R73-0050RK-H2SE	Hydrogen Selenide (H2SE)	0 - 5 ppm
R73-0050RK-NS	No Sensor	Shell only
R73-0050RK-Si2H6	Disilane (Si2H6)	0 - 15 ppm
R73-0050RK-NO	Nitric Oxide (NO)	0 - 100 ppm



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