



## CL1

### Single Point Continuous Monitor



The ChemLogic Single Point Continuous detector provides field proven ChemLogic technology for the quick detection of low level toxic and corrosive gases

The CL1 is the next generation of interference free, low maintenance colorimetric gas detection. This system is simple to install and utilises 1/4" OD X 3/16" ID tubing to allow the sample to be drawn up to 150 feet.

#### Sophisticated Detection & Measurement Method

The innovative CL1 provides relay and analogue outputs and enables customers to experience advanced technology at a lower initial investment and reduced cost of ownership.

#### Fast & Accurate Gas Detection

The CL1 provides a fast response to a wide range of gases. It was designed for maximum uptime, so routine maintenance and service can be performed quickly and easily.

#### Replacement ChemLogic Cassettes

Under normal running conditions, with no target gas present, the ChemLogic cassettes will run continuously (24 hr/day) for 60 days in most instruments. Hydrogen Cyanide and Sulphur Dioxide cassettes will operate for 30 days.

“The CL1 monitors low level toxic gases which popular gas detection technology cannot”

## KEY BENEFITS

- Reduced maintenance and risk of false alarms
- Tape saver mode reduces tape usage during high concentrations
- Quick real-time information
- Easy to startup & operate
- ChemLogic technology

## Technical Specification

### GENERAL

- ChemLogic Technology
- Real Time Display
- New Intelligent Optics
- Optimised Flow System

### PHYSICAL

- H-317.5mm W-260mm D-228mm
- Weight: 13.5 Kg

### OPERATING TEMPERATURE

- Operating Temperature 5C to 40C

### PERFORMANCE

- Relay Outputs 7A Form C - Programmable Low and High Level, Fault
- Sample Distance 150ft(45m) 1/4" OD 1/8"ID Teflon FEP (Does not apply to TDI/MDI)
- Exhaust Tubing 25ft(7.62m) 1/4"OD 3/16"ID

### POWER

- Operating Voltage 85-264VAC 50/60 Hz
- Power Consumption Less than 2 Amps
- Enclosure NEMA 4X
- Analogue Output 4-20ma (500 ohm max impedance)

## Gas Families & Ranges

### HYDRIDES

- Arsine (AsH<sub>3</sub>): 0-50ppb, 0-500ppb
- Silane (SiH<sub>4</sub>): 0-50ppm
- Diborane (B<sub>2</sub>H<sub>6</sub>): 0-500ppb
- Phosphine (PH<sub>3</sub>): 0-1500ppb
- Hydrogen Sulphide (H<sub>2</sub>S) 0-90ppb, 0-500ppb, 0-1500ppb and 0-20ppm
- Germane (GeH<sub>4</sub>) 0-2000ppb
- Hydrogen Selenide (H<sub>2</sub>Se) 0-500ppb

### MINERAL ACIDS

- Hydrogen Chloride (HCl) 0-15ppm
- Hydrogen Flouride (HF) 0-10ppm
- Boron Triflouride (BF<sub>3</sub>) 0-5000ppb
- Hydrogen Bromide (HBr) 0-20ppm
- Nitric Acid (HNO<sub>3</sub>) 0-6ppm
- Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) 0-750ppb

### DIISOCYANATE

- TDI 0-100ppb and 0-200ppb
- MDI 0-100ppb and 0-200ppb
- HDI 0-100ppb
- HMDI 0-100ppb
- IPDI 0-100ppb

### OTHER

- Ammonia (NH<sub>3</sub>) 0-75 ppm
- Bromine (Br<sub>2</sub>) 0-1000ppb
- Carbonyl Sulphide (COS) 0-20ppm
- Hydrazine (N<sub>2</sub>H<sub>4</sub>) 0-500ppb
- Hydrogen Cyanide (HCN) 0-2500ppb
- Phosgene (COCl<sub>2</sub>) 0-900ppb, 0-1000ppb, 0-3000ppb
- Sulphur Dioxide (SO<sub>2</sub>) 0-2500ppb

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