

GAS LEAK DETECTOR

OPERATION

The Model LD100 is a gas leak detector to be used for monitoring atmospheric content of hazardous gases, specifically chlorine, sulfur dioxide, or ammonia.

The detector has selectable alarm points to activate a contact closure output for control of external devices such as automatic actuators, alarm lights, sounding devices, or remote signals sent via SCADA or in-plant computer. An analog output is available for remote monitoring or indication of the specific gas content in PPM. The sensor is temperature compensated to minimize thermal effects. The compact enclosure includes power light, alarm light, pushbutton acknowledge switch, sensor, temperature compensation and customer terminals. The detector is designed to be mounted at the point of concern.

CAPABILITIES

- ◆ Single point, mount anywhere design
- ◆ Requires no power supply or battery backup when connected to ROBO-CONTROL actuator or other 24 VDC source
- ◆ Easy to install
- ◆ Simple to operate
- ◆ No motors or pumps
- ◆ No programming

ADDITIONAL INFO

For information on actuators that open and close cylinders remotely and have outputs to a PLC or SCADA RTU for remote indication of "valve open", "valve closed", "failure or battery", and "leak", refer to Specification **Model 150** for 150-pound cylinder actuators and Specification **Model 2000** for ton cylinders.



DETAILS

Enclosure	NEMA 4X
Power	24 VDC, 100 mA
Optional	120/240 VAC, .2 Amp
Indicator	LED for Power LED for Alarm
Outputs	One, DPDT relay dry contacts 4 to 20 mAdc with t-comp for 0 to 10 PPM
Alarm Point	Selectable, 1 to 5 PPM
Temp. Range	0°C to 40°C
Materials	Fiberglass, stainless steel, PVC
Weight	4 Pounds
Sensor	Expected life is 2 years in air
Warranty	12 months
Options	120/240 VAC, .2 Amp Battery backup Remote Digital Display Calibrator

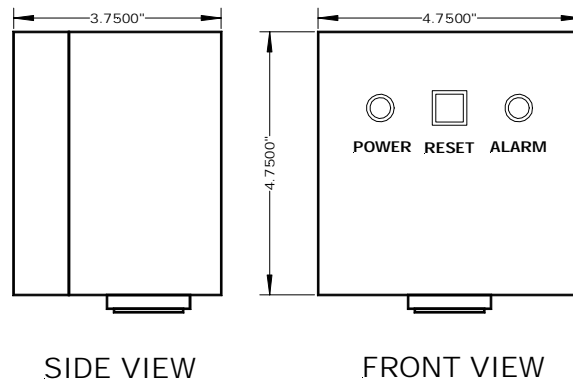
Model Number Breakdown

MODEL NUMBER ITEMS AND OPTIONS

A	B
LD100	-

ITEM	OPTION	DESCRIPTION
A STANDARD EQUIPMENT	LD100	Base price includes 0 to 10 PPM Range, relay output, 4 to 20 mAdc output, temperature compensated sensor input, 24 VDC input, power and alarm light, reset pushbutton, switch selectable alarm point, and NEMA 4X enclosure.
B REMOTE POWER	0	Standard 24 Volt input
	1	Optional 120 VAC power supply required
	2	Optional 120 VAC power supply with battery backup required

DIMENSIONS



NOTE

1. The LD100 Chlorine sensor may exhibit a response to certain gases in a sample other than the target gas. Possible reaction to other gases is shown below. The table shows the typical response to be expected from a sensor when exposed to a given test gas concentration. For details of other possible cross-interfering gases, contact the factory.

GAS	CONC.	LD100	GAS	CONC.	LD100
Carbon Monoxide	300 ppm	0 ppm	Hydrogen	100 ppm	0 ppm
Hydrogen sulphide	15 ppm	-1.5 ppm	Hydrogen cyanide	10 ppm	0 ppm
Sulphur dioxide	5 ppm	0 ppm	Hydrogen chloride	5 ppm	0 ppm
Nitric oxide	35 ppm	0 ppm	Ethylene	100 ppm	0 ppm
Nitrogen dioxide	5 ppm	5 ppm			

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