



## Special Edition - Two Point Continuous Gas Monitoring System

In addition to the PLC series of multipoint monitors, generally offered for three or more points, INTERSCAN provides a two point system, configured as an expanded version of our LD Series single point monitor. This two point system, while not equipped with quite the array of automation features as is standard in our PLC-based multipoints, offers the same proven INTERSCAN reliability upon which our customers have come to depend. The LD series two point system is available for all the gases monitored by INTERSCAN. PLC-based two point systems are also available.

### The system includes:

- \* Two INTERSCAN electrochemical voltametric sensors with dedicated pneumatics
- \* Two dedicated digital display/controllers. From here, two alarm levels, independently adjustable for each sensor, are set via easy push button operation.
- \* Alarm relay contacts for each alarm setpoint, at each sample channel
- \* 4-20 mA output for each sample channel
- \* Two remote sample point boxes, each provided with the appropriate end-of-line particulate filter, and 50 feet (15.2 meters) of tubing



The monitoring system is housed in a NEMA type 12 steel enclosure provided with a window. you're not limited to monitoring two points of the same gas. Two different gases can be incorporated into this configuration!

### Options

- \* Alternative packaging, including Type X or Type Z purged enclosures and RFI resistant enclosures
- \* Audible alarm
- \* Visual alarm
- \* Enclosure heating and cooling
- \* Loss of flow alarm
- \* Triple alarm set points
- \* Loss of power alarm
- \* Auto zero
- \* Sensor protection circuit

Weight: 70 lb (31.8 kg)

Dimensions: 24" H x 20" W x 8.75" D  
(610 x 508x 203 mm), exclusive of alarm signals and enclosure mounting feet.

### Specifications common to all InterScan gas detection instruments

Specification parameters are defined per ANSI/ISA—51.1—1979 (R1993). Performance of a particular model may vary from these specifications, and may also be influenced by environmental factors. For further data, please consult the factory.

Accuracy: Analog units:  $\pm 2.0\%$  of full scale  
Digital units:  $\pm 2.0\%$  of reading,  $\pm 1$  least significant digit  
(Limited to accuracy of calibration standard)

Repeatability:  $\pm 0.5\%$  of full scale  
Minimum Detectability: 1.0% of full scale  
Linearity:  $\pm 1.0\%$  of full scale  
Zero Drift:  $\pm 1.0\%$  of full scale (24 hours)  
Span Drift: Less than  $\pm 2.0\%$  of full scale (24 hours)

(The zero and span drift specifications assume that the analyzer is equilibrated, and is at constant temperature, with a properly maintained sensor.)

"Drift" is defined as an undesired change in output over a period of time, which change is unrelated to input, operating conditions, or load.

Lag Time: Less than 1 second  
Calibration: Against standard gas mixture  
Compliance with: Compliant.  
EC Directives on RoHS and WEEE:

### Additional Specs

Resolution	
0-2000 ppm range	1 ppm
0-1000 ppm range	1 ppm
0-500 ppm range	1 ppm
0-200.0 ppm range	0.1 ppm
0-100.0 ppm range	0.1 ppm
0-50.0 ppm range	0.1 ppm
0-20.0 ppm range	0.1 ppm
0-5.00 ppm range	0.01 ppm
0-2.00 ppm range	0.01 ppm
0-1.00 ppm range	0.01 ppm



### ETA Associates

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**Two Point LD Series Continuous Gas Monitoring Systems**

GAS	MEASURING RANGE (ppm)	MODEL NO. †
Br2 bromine	0-20.0 0-5.00	LD270-20.0m LD270-5.00m
CO carbon monoxide	0-2000 0-200.0 0-100.0 0-50.0	LD214-2000m LD214-200.0m LD214-100.0m LD214-50.0m
Cl2 chlorine	0-20.0 0-5.00	LD234-20.0m LD234-5.00m
ClO2 chlorine dioxide	0-20.0 0-5.00 0-2.00	LD233-20.0m LD233-5.00m LD233-2.00m
C2H4 ethylene	0-2000 0-200.0 0-20.0 0-5.00	LD207-2000m LD207-200.0m LD207-20.0m LD207-5.00m
EtO ethylene oxide	0-50.0 0-20.0 0-5.00	LD220-50.0m LD220-20.0m LD220-5.00m
HCHO formaldehyde	0-20.0 0-2.00	LD216-20.0m LD216-2.00m
H2NNH2 CH3NHNH2 (CH3)2NNH2 hydrazine(s)	0-20.0 0-2.00	LD218-20.0m LD218-2.00m
H2 hydrogen	0-2000 0-500	LD202-2000m LD202-500m
HBr hydrogen bromide	0-20.0 0-5.00	LD280-20.0m LD280-5.00m
HCl hydrogen chloride	0-20.0 0-5.00	LD236-20.0m LD236-5.00m
HCN hydrogen cyanide	0-50.0 0-20.0 0-5.00	LD228-50.0m LD228-20.0m LD228-5.00m
H2O2 hydrogen peroxide	0-1000 0-200.0 0-50.0 0-5.00	LD209-1000m LD209-200.0m LD209-50.0m LD209-5.00m
H2S hydrogen sulfide	0-500 0-200.0 0-20.0 0-1.00	LD217-500m LD217-200.0m LD217-20.0m LD217-1.00m

GAS	MEASURING RANGE (ppm)	MODEL NO. †
NO nitric oxide	0-2000 0-200.0 0-20.0 0-5.00	LD254-2000m LD254-200.0m LD254-20.0m LD254-5.00m
NO2 nitrogen dioxide Also known as N2O4 nitrogen tetroxide	0-50.0 0-20.0 0-5.00	LD215-50.0m LD215-20.0m LD215-5.00m
O3 ozone	0-50.0 0-20.0 0-5.00	LD248-50.0m LD248-20.0m LD248-5.00m
PrO propylene oxide	0-50.0 0-20.0 0-5.00	LD232-50.0m LD232-20.0m LD232-5.00m
SO2 sulfur dioxide	0-200.0 0-50.0 0-20.0 0-5.00	LD224-200.0m LD224-50.0m LD224-20.0m LD224-5.00m

† These are the new model numbers. Certain other sources may not reflect this system, while the change-over is occurring. If in doubt, specify the gas and the measuring range desired.

¶ There is not a separate analyzer available for each of these compounds, and the sensor does not respond equally to all hydrazine species. The analyzer must be calibrated with the specific hydrazine compound of interest.

Special ranges available on request—The panel meter can be factory programmed to display any desired full scale range, within the measuring capability of the instrument.





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