



## Continuous Monitoring - Single Point Applications

If you need to perform gas detection at only one point, or have several points that are either widely separated, or would each be better served by a self-contained monitoring system, check out Interscan's LD or RM Series. These tough, field-proven units are available for Br<sub>2</sub>, CO, Cl<sub>2</sub>, ClO<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, ethylene oxide, HCHO, H<sub>2</sub>, hydrazine, HBr, HCl, HCN, H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>S, NO, NO<sub>2</sub>, O<sub>3</sub>, propylene oxide, and SO<sub>2</sub>.

-- and use our own patented electrochemical voltametric sensors.

### LD Series

Interscan's LD Series represents the ultimate in single point continuous gas monitoring systems. Each and every component has been chosen based on years of experience in some of the most demanding environments imaginable. What's more, the units are easy and inexpensive to maintain.

An impressive array of options allows the specifier to put together a system ideally suited to the application.



### 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
- \* Aspirator (in lieu of pump)
- \* Auto zero
- \* Sensor protection circuit

### Features

- \* Super-rugged NEMA Type 4X fiberglass reinforced polyester enclosure
- \* 3½ digit LED display
- \* Integral diaphragm pump
- \* Rotameter
- \* Analog output---
  - 0-1 V & 4-20 mA full scale
- \* Low and high alarm contacts, continuously adjustable through the full scale measuring range, activating dedicated relays

### 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

Weight:  
22 lb (10.0 kg)

Dimensions:  
22" H x 18" W x 8.5" D  
(559 x 457x 216 mm)



## ETA Associates

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## RM Series

InterScan's Rack-Mount configured gas analyzers are intended for those applications in which line power operation is desired (allowing continuous operation and the incorporation of heavier-duty alarm signals or alarm contacts), but in which the rigorous NEMA 4X packaging of the LD Series is not required.

Designed to be installed in a standard 19 inch (483 mm) rack or to be used on the bench, their open frame construction and use of standard electrical and pneumatic components allow easy incorporation of the units into a system. Many of the LD Series' features and options are available.

### Options

- \* Integral pump
- \* Rotameter
- \* Loss of flow alarm
- \* 4-20 mA analog output
- \* Alarm contacts
- \* Dual alarm set points
- \* Triple alarm set points
- \* Loss of power alarm
- \* Slide rail hardware and access door, for rack mounting

Weight:

8 lb (3.6 kg)

Dimensions:

7" H x 19" W x 12" D  
(178 x 483 x 305 mm)



### Features

- \* 3½ digit LED display
- \* Wrap-around cover
- \* 0-1 V analog output

### 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

### 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: ±2.0% of full scale  
Digital units: ±2.0% of reading, ±1 least significant digit  
(Limited to accuracy of calibration standard)

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

### Ordering Information:

#### LD Series Continuous Gas Monitoring Systems and RM Series Rack Mount Gas Analyzers

GAS	MEASURING RANGE (ppm)	LD SERIES Model No. †	RM SERIES Model No. †
Br2 bromine	0-20.0 0-5.00	LD70-20.0m LD70-5.00m	RM70-20.0m RM70-5.00m
CO carbon monoxide	0-2000 0-200.0 0-100.0 0-50.0	LD14-2000m LD14-200.0m LD14-100.0m LD14-50.0m	RM14-2000m RM14-200.0m RM14-100.0m RM14-50.0m
Cl2 chlorine	0-20.0 0-5.00	LD34-20.0m LD34-5.00m	RM34-20.0m RM34-5.00m
ClO2 chlorine dioxide	0-20.0 0-5.00 0-2.00	LD33-20.0m LD33-5.00m LD33-2.00m	RM33-20.0m RM33-5.00m RM33-2.00m
C2H4 ethylene	0-2000 0-200.0 0-20.0 0-5.00	LD07-2000m LD07-200.0m LD07-20.0m LD07-5.00m	RM07-2000m RM07-200.0m RM07-20.0m RM07-5.00m
EtO ethylene oxide	0-50.0 0-20.0 0-5.00	LD20-50.0m LD20-20.0m LD20-5.00m	RM20-50.0m RM20-20.0m RM20-5.00m
HCHO formaldehyde	0-20.0 0-2.00	LD16-20.0m LD16-2.00m	RM16-20.0m RM16-2.00m
H2NNH2 CH3NHNH2 (CH3)2NNH2 hydrazine(s)	0-20.0 0-2.00	LD18-20.0m LD18-2.00m	RM18-20.0m RM18-2.00m
H2 hydrogen	0-2000 0-500	LD02-2000m LD02-500m	RM02-2000m RM02-500m
HBr hydrogen bromide	0-20.0 0-5.00	LD80-20.0m LD80-5.00m	RM80-20.0m RM80-5.00m
HCl hydrogen chloride	0-20.0 0-5.00	LD36-20.0m LD36-5.00m	RM36-20.0m RM36-5.00m
HCN hydrogen cyanide	0-50.0 0-20.0 0-5.00	LD28-50.0m LD28-20.0m LD28-5.00m	RM28-50.00m RM28-20.0m RM28-5.00m
H2O2 hydrogen peroxide	0-1000 0-200.0 0-50.0 0-5.00	LD09-1000m LD09-200.0m LD09-50.0m LD09-5.00m	RM09-1000m RM09-200.0m RM09-50.0m RM09-5.00m



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GAS	MEASURING RANGE (ppm)	LD SERIES Model No. †	RM SERIES Model No. †
H2S hydrogen sulfide	0-500 0-200.0 0-20.0 0-1.00	LD17-500m LD17-200.0m LD17-20.0m LD17-1.00m	RM17-500m RM17-200.0m RM17-20.0m RM17-1.00m
NO nitric oxide	0-2000 0-200.0 0-20.0 0-5.00	LD54-2000m LD54-200.0m LD54-20.0m LD54-5.00m	RM54-2000m RM54-200.0m RM54-20.0m RM54-5.00m
NO2 nitrogen dioxide Also known as N2O4 nitrogen tetroxide	0-50.0 0-20.0 0-5.00	LD15-50.0m LD15-20.0m LD15-5.00m	RM15-50.0m RM15-20.0m RM15-5.0m
O3 ozone	0-50.0 0-20.0 0-5.00	LD48-50.0m LD48-20.0m LD48-5.00m	RM48-50.0m RM48-20.0m RM48-5.00m
PrO propylene oxide	0-50.0 0-20.0 0-5.00	LD32-50.0m LD32-20.0m LD32-5.00m	RM32-50.0m RM32-20.0m RM32-5.00m
SO2 sulfur dioxide	0-200.0 0-50.0 0-20.0 0-5.00	LD24-200.0m LD24-50.0m LD24-20.0m LD24-5.00m	RM24-200.0m RM24-50.0m RM24-20.0m RM24-5.00m

† 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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