

# Toxic Gas Transmitter

## for Hazardous Locations Use



MODEL HLM-1000-TX  
TOXIC MONITOR

### THE SYSTEM

The CSA approved HLM-1000 is an analog detector head compatible with all Arjay 4-20mA based control units as well as most other 24 volt systems. Its transformer-isolated design and rugged construction make the HLM-1000 an ideal choice for both new and retrofit applications. All HLM-1000 Detector Heads include an Electrochemical Sensor & Transmitter mounted in an explosion-proof enclosure.



<b>GAS TYPE</b>	<b>STANDARD RANGE</b>	<b>PART NUMBER</b>	<b>TEMPERATURE RANGE</b>
Ammonia	0-100 PPM	E90517	-25°C to 40°C
Carbon Monoxide	0-500 PPM	E90518	-20°C to 40°C
Chlorine	0-10 PPM	E90519	-15°C to 40°C
Hydrogen Sulphide	0-100 PPM	E90520	-40°C to 40°C
Nitric Oxide	0-100 PPM	E90521	-20°C to 40°C
Nitrogen Dioxide	0-20 PPM	E90522	-20°C to 40°C
Oxygen	0-30% VOL	E90523	-15°C to 40°C
Sulphur Dioxide	0-50 PPM	E90525	-15°C to 40°C

# TOXIC GAS TRANSMITTERS

(Refer to LEL Monitor Specifications for Combustible Gases)

APPROVALS	CSA Approved for Class I, Division 1 Groups B, C & D - FILE #LR60959-29C
OPERATING VOLTAGE RANGE	15-30 VDC, 24 VDC Nominal (Loop Powered Device)
OPERATING TEMPERATURE	See Guide on Front
ACCURACY	± 10% of Reading
RESPONSE TIME*	< 30 Seconds to 90% Reading of gas value applied
SAMPLING METHOD	Diffusion, Optional Sample Drawing
OUTPUT	Two Wire 4-20mA (Loop Powered Device)
OUTPUT LINEARITY	Linear for all Gas Types
MAXIMUM LOAD	400 OHMS at 24 VDC
ELECTRONIC CONSTRUCTION	All electronic components contained on two three inch diameter plug-in, conformal coated circuit boards
CONTROLS	Zero, Span, Bias
ENCLOSURE RATING	Explosion-Proof for Class I, Div 1, Groups B,C, D / NEMA 3, 4, 7, 9
DIMENSIONS	13.3 (W) x 23.0 (L) x 9.9 (H) cm
WEIGHT	1.68 KG
RECOMMENDED WIRE SIZING	0-100 Metres: 18 AWG Shielded 100-500 Metres: 16 AWG Shielded 500-1000 Metres: 14 AWG Shielded

#### Technical Specification Notes:

\* Response time to first alarm is significantly lower; for example, response time of H2S sensor to first alarm is 8 seconds.

#### YOUR REPRESENTATIVE:

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