

GG-EXP GAS DETECTOR

EXPLOSION PROOF



SPECIFICATIONS [ALL VARIANTS]

Enclosure	Copper-free aluminum body, epoxy powder coat finish, neoprene gasket, for hazardous areas
Dimensions	6.75" H x 5.25" W x 4.5" D
Weight	3.75 lbs
Wiring Connection	3-conductor, shielded, stranded, ≥ 20 AWG cable (Belden 8772 or equivalent) up to 1500 ft
Terminal Block Plug (field wiring)	26-12 AWG, torque 4.5 lbs-in
Output Signal	4/20 mA linear output
Input Power	+24 VDC
Detection Method	Diffusion
Linearity	+/- 0.5% Full Scale
Repeatability	+/- 1% full scale
Operating Humidity	5-100% condensing
Sensor Head Certifications	ATEX Certificate CESA 01 ATEX 066 U (GG-NH3-1%-EXP & GG-NH3-2%-EXP only)
Enclosure Certifications	NEC/CEC: Class I, Division 1 & 2, Groups B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III NEMA/IEC: 3, 4, 4X, 7BCD, 9EFG UL Standard: 1203 CSA Standard: C22.2 No. 30 FM Classification No.: 3615 ATEX Certificate: KEMA 02 ATEX 2265U IEC Standards: EN: 60079-0, EN:60079-1, EN:60529
Warranty	2 years sensing element and transmitter

APPLICATIONS

Cold Storage
Compressor Rooms
Sea Vessels
Shipping Warehouses
Ice Rinks
Refrigeration
Food Processing
Breweries
Grocery Stores
Wastewater
Chemical Plants
Vehicle Depots
Wineries
Water Treatment
Pharmaceuticals

GG-EXP Gas Detector Specifications [EXPLOSION PROOF ENCLOSURE]



Target Gas	Range	Item #	Sensor Technology	Replacement Sensor Element	Response Time		Accuracy	Zero Drift / month	Span Drift / month	Current Draw Max	Operating Temp	
					T50	T90					Min	Max
AMMONIA (NH3)	0-100 PPM	GG-NH3-100-EXP	Electrochemical	GG-NH3-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-250 PPM	GG-NH3-250-EXP	Electrochemical	GG-NH3-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-300 PPM	GG-NH3-300-EXP	Electrochemical	GG-NH3-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-500 PPM	GG-NH3-500-EXP	Electrochemical	GG-NH3-HR-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-1,000 PPM	GG-NH3-1000-EXP	Electrochemical	GG-NH3-HR-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-10,000 PPM	GG-NH3-1%-EXP	Catalytic Bead	GG-NH3-1%-RS-EXP	< 30 sec	< 60 sec	+/- 5%	< 0.1% FS	< 2%	80 mA	-40°F	120°F
	0-20,000 PPM	GG-NH3-2%-EXP	Catalytic Bead	GG-NH3-2%-RS-EXP	< 30 sec	< 60 sec	+/- 5%	< 0.1% FS	< 2%	80 mA	-40°F	120°F
CARBON MONOXIDE (CO)	0-200 PPM	GG-CO-200-EXP	Electrochemical	GG-CO-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
CHLORINE (CL2)	0-5 PPM	GG-CL2-5-EXP	Electrochemical	GG-CL2-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
HYDROGEN (H2)	0-2,000 PPM	GG-H2-EC-2000-EXP	Electrochemical	GG-H2-EC-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
	0-10,000 PPM	GG-H2-EC-10000-EXP	Electrochemical	GG-H2-EC-RC-EXP	< 30 sec	< 60 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
HYDROGEN SULFIDE (H2S)	0-50 PPM	GG-H2S-50-EXP	Electrochemical	GG-H2S-RC-EXP	< 30 sec	< 120 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
Nitrogen Dioxide (NO2)	0-10 PPM	GG-NO2-10-EXP	Electrochemical	GG-NO2-RC-EXP	< 45 sec	< 90 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F
OXYGEN (O2)	0-25%	GG-O2-0/25-EXP	Electrochemical	GG-O2-RC-EXP	< 30 sec	< 60 sec	+/- 2%	< 0.5% FS	< 0.5%	40 mA	-4°F	122°F
	15-25%	GG-O2-15/25-EXP	Electrochemical	GG-O2-RC-EXP	< 30 sec	< 60 sec	+/- 2%	< 0.5% FS	< 0.5%	40 mA	-4°F	122°F
SULFUR DIOXIDE (SO2)	0-20 PPM	GG-SO2-20-EXP	Electrochemical	GG-SO2-RC-EXP	< 30 sec	< 120 sec	+/- 5% FS	< 0.1% FS	< 3%	40 mA	-4°F	122°F

Transmitters are target gas, and sensor technology specific. Use only the specified replacement sensor for each gas detector

FS=Full Scale