B12 Series
2-wire Gas Transmitters

Series B12 transmitters are loop-powered instruments that transmit a 4/20 mA signal linearly proportional to gas concentration.
Operated from a 24 Vdc power supply, the transmitter will drive loads up to 675 ohms, sufficient for most monitoring applications.
Alternatively, the unit can operate at 12 Vdc with reduced output load for applications requiring battery operation.
Transmitters are normally supplied with the sensor close coupled to the enclosure.
However, for special application, the unit can be supplied with separate sensor that can be located up to 25 feet from the transmitter.
The suggested controller is the model BC 7635.

Gas	Standard Range	Minimoum Range	Maximum Range
Ammonia	0/100 PPM	0/100 PPM	0/500 PPM
Carbon Monoxide	0/100 PPM	0/100 PPM	0/500 PPM
Hydrogen	0/4 %	0/2000 PPM	0/10 %
Nitric Oxide	0/100 PPM	0/50 PPM	0/250 PPM
Phosgene	0/2 PPM	0/2 PPM	0/10 PPM
Bromine	0/2 PPM	0/1 PPM	0/5 PPM
Chlorine	0/10 PPM	0/5 PPM	0/50 PPM
Chlorine Dioxide	0/2 PPM	0/1 PPM	0/5 PPM
Fluorine	0/2 PPM	0/1 PPM	0/5 PPM
Iodine	0/2 PPM	0/1 PPM	0/5 PPM
Ozone	0/2 PPM	0/1 PPM	0/5 PPM
Oxygen	0/25 %	0/5 %	0/35 %
Hydrogen Peroxide	0/10 PPM	0/10 PPM	0/50 PPM
Hydrogen Chloride	0/20 PPM	0/10 PPM	0/50 PPM
Hydrogen Cyanide	0/20 PPM	0/10 PPM	0/50 PPM
Hydrogen Fluoride	0/20 PPM	0/10 PPM	0/50 PPM
Hydrogen Sulfide	0/50 PPM	0/25 PPM	0/250 PPM
Nitrogen Dioxide	0/20 PPM	0/10 PPM	0/50 PPM
Sulfur Dioxide	0/20 PPM	0/10 PPM	0/50 PPM
Arsine	0/1000 PPB	0/1000 PPB	0/5000 PPB
Diborane	0/1000 PPB	0/1000 PPB	0/5000 PPB
Germane	0/1000 PPB	0/1000 PPB	0/5000 PPB
Hydrogen Selenide	0/1000 PPB	0/1000 PPB	0/5000 PPB
Phosphine	0/1000 PPB	0/1000 PPB	0/5000 PPB
Silane	0/10 PPM	0/10 PPM	0/50 PPM
Combustible gas	0/100 % LEL	0/50 % LEL	0/100 % LEL

GS 1214.01
Ozone transmitter

Complete with O_3 sensor
Scale: 0/1 PPM

0012.000002
O_3 spare sensor

Accessories

0012.000118 Calibration adapter

Technical Specifications

Gas type: Customer selected from the sensor list
Accuracy: Generally ±5 % of value, but limited by available calibration gas accuracy
Repeatability: ± 1% of full scale (electronics)
Linearity: ± 0.5% of full scale (electronics)
Zero drift: Sensor dependent, but generally less than 2% of full scale per month, non-cumulative
Span drift: Application dependent, but generally less than 3% per month
Output: Loop powered 4/20 mA, 675 ohm max. at 24 Vdc
Power: 12/30 Vdc
Enclosure: NEMA 4X Polystyrene
Controls: Zero and Span internal potentiometers
Operating Temperature: -30/+55 °C (Oxygen -10/+55 °C)
Pressure limits: 0.5/2 bar
Weight: 120 g
Option: 3 digit LCD display

The technical specifications could be changed without notice.