

► B12

Toxic gas detector (2-wire gas transmitter)



Product description

The **B12** gas transmitter is a loop-fed toxic gas detector which provides a linear 4-20 mA signal proportional to the measured gas concentration.

The **B12** transmitter housing is made of NEMA 4X polystyrene and is suitable for any industrial environment. An optional LCD screen allows reading of ambient concentrations on the front of the device.

The **B12** is particularly suitable for the detection of exotic gases such as bromine, fluorine, formaldehyde, germane, iodine, fluorine, hydrogen peroxide, phosgene, hydrogen selenide, etc.

► Assets

- Direct measurement with fast response time
- Minimum maintenance
- Low consumption
- Optional LCD display

Technical specifications

Detected gases: See table

Power supply: 12-28 VDC / Output : 4-20mA

Load resistance: 675 ohms maximum under 24VDC

Settings: by potentiometers (zero and sensitivity) mounted on the electronic card

Precision: ± 5% of the value

Repeatability : ± 1% of span

Linearity : ± 5% of span

Material: NEMA 4X polystyrene, optional LCD display

Operating temperature: from 0 to +50°C

Sensor material: Noryl

Weight: 0,4 kg

Measuring ranges

Code	Description
B12-1-XX	B12 sensor-transmitter without display
B12-4-XX	B12 sensor-transmitter with display

XX corresponds to the gas sensor code

Gas	Standard range	Min. range	Max. range	Code
Acetylene	0-500 ppm	0-500 ppm	0-2000 ppm	40
Alcohol	0-500 ppm	0-500 ppm	0-2000 ppm	39
Ammonia	0-100 ppm	0-50 ppm	0-1000 ppm	15
Arsine	0-1000 ppb	0-1000 ppb	0-100 ppm	28
Bromine	0-2 ppm	0-2 ppm	0-100 ppm	10
Carbon monoxide	0-100 ppm	0-50 ppm	0-1000 ppm	16
Chlorine	0-10 ppm	0-2 ppm	0-100 ppm	11
Chlorine dioxide	0-2 ppm	0-2 ppm	0-100 ppm	12
Diborane	0-1000 ppb	0-1000 ppb	0-100 ppm	29
Ethylene oxide	0-20 ppm	0-20 ppm	0-200 ppm	37
Fluorine	0-2 ppm	0-2 ppm	0-100 ppm	13
Formaldehyde	0-20 ppm	0-20 ppm	0-200 ppm	38
Germane	0-1000 ppb	0-1000 ppb	0-100 ppm	30
Hydrogen	0-4 %/vol.	0-1000 ppm	0-10 %/vol.	18
Hydrogen chloride	0-20 ppm	0-10 ppm	0-200 ppm	21
Hydrogen cyanide	0-20 ppm	0-10 ppm	0-200 ppm	22
Hydrogen fluoride	0-20 ppm	0-10 ppm	0-200 ppm	23
Hydrogen peroxide	0-10 ppm	0-10 ppm	0-2000 ppm	34
Hydrogen selenide	0-1000 ppb	0-1000 ppb	0-100 ppm	31
Hydrogen sulfide	0-50 ppm	0-10 ppm	0-500 ppm	24
Iodine	0-2 ppm	0-2 ppm	0-100 ppm	35
Nitric oxide	0-50 ppm	0-50 ppm	0-500 ppm	25
Nitrogen dioxide	0-20 ppm	0-10 ppm	0-200 ppm	26
Nitrogen oxides	0-500 ppm	0-500 ppm	0-2000 ppm	42
Organic vapors	0-500 ppm	0-500 ppm	0-2000 ppm	45
Oxygen	0-25 %/vol.	0-5 %/vol.	0-25 %/vol.	19
Ozone	0-2 ppm	0-2 ppm	0-100 ppm	14
Phosgene	0-2 ppm	0-2 ppm	0-200 ppm	20
Phosphine	0-1000 ppb	0-1000 ppb	0-100 ppm	32
Silane	0-10 ppm	0-1 ppm	0-100 ppm	33
Sulphur dioxide	0-20 ppm	0-10 ppm	0-200 ppm	27