

2-wire Blind Gas Detector 1X Series Model BI 510



Bhoomi introduces cost effective single gas transmitter BI510 for gas measurement present in Industrial & Commercial premises to safeguard Industry & Human from any hazard due to gas leakage.

BI510 - 1X Series Gas Transmitter is a 2 wire loop powered Single Gas Transmitter comprising of transmitter and electrochemical sensor.

The transmitter enclosure has three threaded entries. The two cable/conduit entries either side of the upper part of the transmitter housing are for connecting the power source, signal output to associated signalling equipment. The bottom entry allows direct connection of the sensor socket.

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Features:

- Low cost of ownership
- Rugged & Reliable
- Industry standard 4-20mA analog signal output
- CIMFR/ PESO/ ATEX certified to Exd IIC T6, IP66

Gas & Ranges:

Gas Type	Gases	Range	Resolution	Technology
CH ₂ CHCN	Acrylonitrile	0 - 100 PPM	1 PPM	EC
NH ₃	Ammonia	0 - 100 PPM	1 PPM	EC
NH ₃	Ammonia	0 - 500 PPM	1 PPM	EC
NH ₃	Ammonia	0 - 1000 PPM	1 PPM	EC
CS ₂	Carbon Disulfide	0 - 100 PPM	1 PPM	EC
CO	Carbon Monoxide	0 - 100 PPM	1 PPM	EC
CO	Carbon Monoxide	0 - 500 PPM	1 PPM	EC
CO	Carbon Monoxide	0 - 1000 PPM	1 PPM	EC
Cl ₂	Chlorine	0 - 20 PPM	0.1 PPM	EC
CH ₂ O	Formaldehyde	0 - 10 PPM	0.1 PPM	EC
H ₂	Hydrogen	0 - 1000 PPM	1 PPM	EC
H ₂	Hydrogen	0 - 100% LEL	1% LEL	EC
HCN	Hydrogen Cyanide	0 - 100 PPM	1 PPM	EC
HCl	Hydrogen Chloride	0 - 20 PPM	0.1 PPM	EC
HF	Hydrogen Fluoride	0 - 10 PPM	0.1 PPM	EC
H ₂ S	Hydrogen Sulphide	0 - 100 PPM	1 PPM	EC
	Mercaptan	0 - 20 PPM	0.1 PPM	EC
NO ₂	Nitrogen Dioxide	0 - 20 PPM	0.1 PPM	EC
O ₂	Oxygen	0 - 25% V/V	0.1% V/V	EC
O ₃	Ozone	0 - 1 PPM	0.01 PPM	EC
PH ₃	Phosphine	0 - 10 PPM	0.01 PPM	EC
COCl ₂	Phosgene	0 - 1 PPM	0.01 PPM	EC
C ₈ H ₈	Styrene	0 - 100 PPM	1 PPM	EC
SO ₂	Sulphur Dioxide	0 - 20 PPM	0.1 PPM	EC
C ₂ H ₃ Cl	Vinyl Chloro Monomer	0 - 100 PPM	1 PPM	EC

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Technical Specification:

➤ Electrical	: 2-wire loop powered 24VDC
➤ Signal	: 4 – 20 mA
➤ Operating Temperature	: -20°C to 60°C
➤ Operating Pressure	: Ambient +/-10%
➤ Operating Humidity	: 0-95% RH (non-condensing)
➤ Mounting	: Wall, Pole
➤ Response Time	: < 90 seconds
➤ Transmitter MOC	: Flameproof - cast aluminium alloy. SS-316 on request.
➤ Sensor Enclosure MOC	: SS316
➤ Sensor Filter Type	: Sintered Filter
➤ Ingress protection	: IP 66
➤ Cable Entries	: 2 Nos. M20
➤ Transmitter Size	: 250 mm X 170 mm X 105 mm
➤ Certification	: CIMFR/ PESO/ ATEX certified to Exd IIC T6, IP66

Application:

- Oil & Gas
- Refineries & Petrochemical plants
- Chemical Plant
- Pharmaceutical
- Power Industries
- Pollution monitoring
- Waste water treatment plants
- Printing
- Iron and steel plants
- Fertilizer Plant
- Tunnels & car parking areas
- Confined space
- Printing Industries
- Ammonia Refrigeration
- Duct Monitoring
- Marine
- Military & national security
- Pulp & Paper Industry
- Semiconductor
- Photovoltaic
- Building & Construction



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