

3-wire Blind Gas Detector 1X Series Model BI 520



Features:

- Low cost of ownership
- Rugged & Reliable
- Wide range of sensors
- Available in %LEL or ppm detection range.
- Industry standard 4-20mA analog signal output
- CIMFR/ PESO/ ATEX certified to Exd IIC T6, IP66

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Bhoomi introduces cost effective 3 wire gas transmitter BI520 for Combustible gas measurement present in Industrial & Commercial premises to safeguard Industry & Human from any hazard due to gas leakage.

BI520 is single gas transmitter comprising of transmitter and sensor. It is 3 wire transmitter with 4-20 mA & RS485 Modbus output. Electrochemical, Infrared and Pellistor technology based sensors used for detection of Flammable, Toxic and Oxygen gases.

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.

Gas & Ranges

Gas Type	Gases	Range	Resolution	Technology
C2H2	Acetylene	0 - 100% LEL	1% LEL	Pellister
C4H9OH	Butanol	0 - 100% LEL	1% LEL	Pellister
CO2	Carbon Dioxide	0 - 5% V/V	0.01% V/V	NDIR
CO2	Carbon Dioxide	0 - 100% V/V	1% V/V	NDIR
CH4	HC (Methane)	0 - 100% LEL	1% LEL	Pellister
CH4	HC (Methane)	500 - 10000 PPM	10 PPM	Solid State
H2	Hydrogen	0 - 100% LEL	1% LEL	Pellister
HC	Hydro Carbon	50 - 1000 PPM	1 PPM	Solid State
CH4	Methane	0 - 100% LEL	1% LEL	Pellister
CH4	Methane	0- 100% V/V	1% V/V	NDIR
	LPG	0 - 100% LEL	1% LEL	Pellister
C4H8	VOC (Isobutylene)	0 - 1000 PPM	1 PPM	PID
C4H8	VOC (Isobutylene)	0 - 40 PPM	0.1 PPM	PID

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Technical Specification:

➤ Power	: 15 – 28 VDC (Typically 24 VDC)
➤ Power Consumption	: Max. 5 Watts
➤ Output	: 4 – 20 mA Analog Output
➤ Digital Interface	: RS 485, Modbus protocol
➤ 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

Applications:

- 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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