

WIRELESS TRANSMITTER

FOR EXPLOSIVE, OXYGEN AND TOXIC GASES



EXPO 98 - WIRELESS TRANSMITTER

EXPO 98 is an innovative wireless gas detection system designed to monitor gas in Hostile environment without the use of wires or conduit from the controller to the sensor. It is self contained and battery operated. The sensor functions by transmission of radio wave messages to the Interface relayers, wireless monitor or gateway bridges or any other compatible receiving controller. The device is field adjustable for interface with other systems.

SPECIAL FEATURES

- Wireless sensor assembly housed in a explosion proof enclosure division 1, group C & D
- Radio frequency is 865 / 868 mHz
- Transmission frequency is every 1 minute without gas present and every 5 sec, with gas present above the set background level, rapid response and clearing time
- Explosion and weather proof enclosure
- 6" dipole straight antenna and antenna fitting

SPECIFICATIONS

Type	: Field / wall mounted
Detectable gases / parameters	: Toxic, Combustible, Oxygen
Electronics / processor	: Micro-controller
Power supply	: 5V DC, through SMPS / 5V DC through Battery / 24V
Display	: Graphic Display
Output	: ZIGBEE
Technology	: EC, CC, IR, PID, SS
Resolution	: 1 %V/V, 1 %LEL, 1 PPM
Accuracy	: $\pm 2\%$
Response time	: Sensor dependent
Operating temperature	: 0 - 55°C
Sampling	: Diffusion
Housing	: Aluminum alloy (WP / EX)
RF Frequency	: 865 / 868 MHz.
Compatibility	: with RP - 251, RC - 253
Antenna	: 2.1 DBI, Half wave whip antenna
Communication Range	: 300 meter clear line of sight with standard dipole antenna, 100 meter else

GASES AND RANGES

1. HCN	: 0 - 200	PPM	7. NO2	: 0 - 1000	PPM
2. SO2	: 0 - 2000	PPM	8. Oxygen	: 0 - 30	%V/V
3. HCL	: 0 - 200	PPM	9. CO	: 0 - 4000 / 0-10	PPM
4. CO2	: 0 - 100	%V/V	10. Cl2, Br2, F2	: 0 - 200	PPM
5. H2S	: 0 - 1000	PPM	11. NH3	: 0 - 1000	PPM
6. NO	: 0 - 5000	PPM	12. HC, H2	: 0-1000 / 0-100	%LEL / %V/V

Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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