WGD-100-FLP

BATTERY POWERED WIRELESS GAS DETECTOR

OVERVIEW:

WGD series detector is a complete stand alone system with integrated lithium-ion battery. It works on dual redundancy GSM connectivity, it can also interface with Methane/Combustible/Toxic Gas sensors. Features Highlighted for the device (WGD Series) such as battery powered, MQTT cloud connectivity and SMS alert notification.



CIMFR Tested & PESO Approved Encl.

AMBETRONICS

WGD4MSB-FLP (Flameproof)
 Suitable for use in Hazardous Locations
 Protection Class- IP-66 for Gas Gr. IIC PESO approved enclosure

FEATURES:

- Provides a fast & reliable response by using Electrochemical or NDIR Technology
- Optimized for detection of smallest leakage of gas with Continuous gas leakage monitoring

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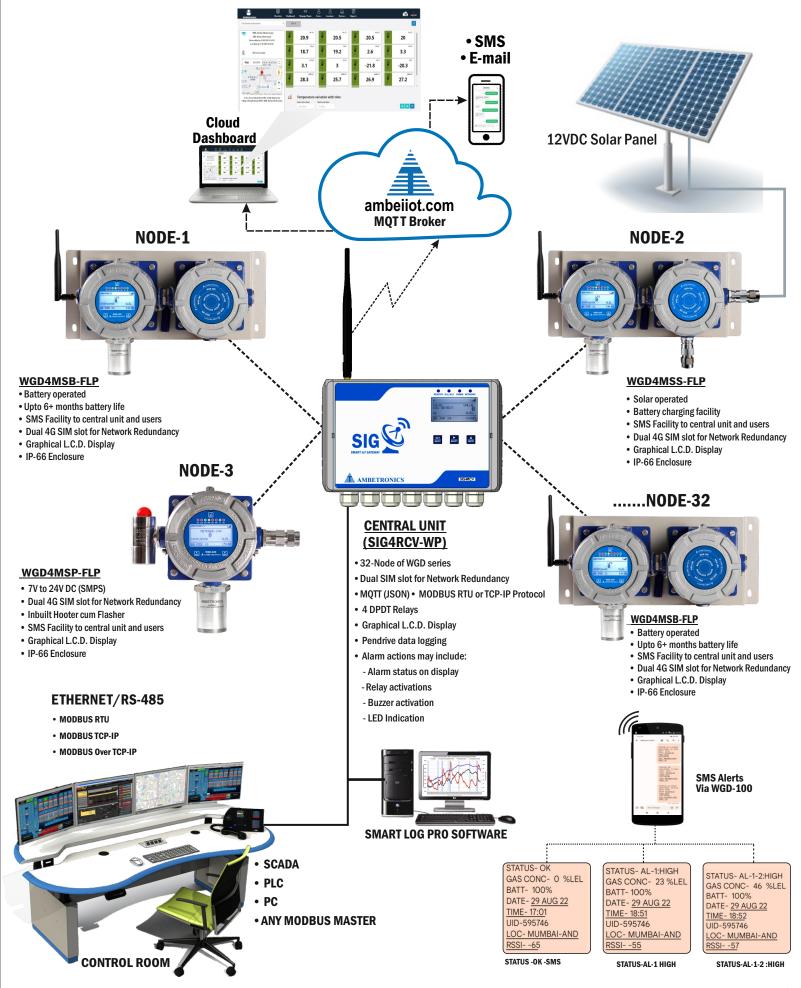
- Works on Internal Lithium battery with Approximate 6+ months battery life $$^{*}(1 \text{ Transmission}/\text{ Day})$$
- 4G GSM Connectivity with Dual SIM card slots for Redundancy with Auto SIM switching in case of network failure
- Transmits Sensor Status, Gas Leak Information, Battery percentage, Date & Time, UID number, Location & RSSI
- Daily Status & Fault status SMS notification available (Fixed and Settable Specific time)
- Transmits Gas leak information, Battery status & alert status to 2 wireless central units (SIG) in encrypted format and SMS alerts to 5 mobile users
- User programmable sensor locations
- User Friendly Magnetic Wand & L.C.D. display for Man Machine Interface, programming and calibration
- Password Protected Function Menu
- Two configurable alarms with Low, High Logic for SMS alerts.
- L.E.D. Indications like Alarm, Healthy, Programming mode, Calibration Mode, Key Press, Data Transmission Indication
- Network Failsafe logging (15,000 Records)
- Wireless remote central unit for relay operations, data collection over MODBUS RTU/MODBUS TCP-IP and MQTT cloud connectivity.
- Suitable for using in remote & hazards locations
- GMT Supported Settable Timezone
- Settable country code for SIM card numbers supported.

APPLICATIONS:

- Refineries & Petrochemical plants including offshore drilling & plant shutdowns.
- Automotive Industrial/Paints Shops
- Chemical Processing Plant
- Acid Alkalis & Dyes mfg. Plants
- Bullet Yards / Storage Yard
- Waste water Treatment plants
- Leak detection in Gas Pipelines
- Process or Emission gas analysis
- Coal Mines
- Gas Metering Skid
- Gas Cylinder Bank
- Sewage Plants
- Fertilizers Plants
- Chlorination Plant
- Oil & Gas Industries
- Gas Pipeline Project
- Pulp & Paper Plants
- Gas Metering Station
- Burner / Furnace Areas
- Cold Storage
- Stack Monitoring
- Ambient Monitoring
- Heat Treatment Plants
- Chemical Storage Area
- Control Atmosphere
- Power & Industrial Plants

Note : * Battery life varies according to the transmission / day & alerts.

Comprehensive Solution for Wireless Gas Detection & Control



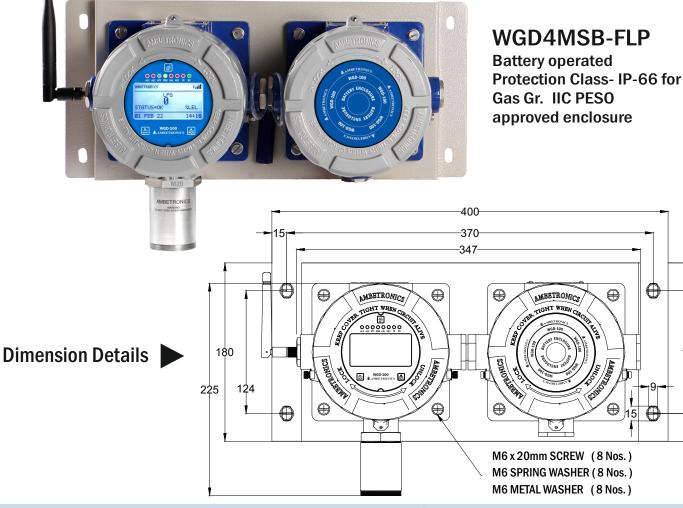
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Technical Specifications for Wireless Gas Detector Series

NETWORK

Normal Mode During Data transmissio Power Supply	: Up to 10mW during detection (WGD4MSB) n : Up to 300mW (WGD4MSB) : 7.4V Rechargeable, Li-ion battery	
USER INTERFACE		
LCD display Keys Settings LED's	 128 x 64 pixel Graphical display 3 keys (SHIFT key, SET Key, INCR key) Use of Magnetic wand without opening enclosure cover L.E.D. Indications for device status/ Alarm statu 	
ENVIRONMENTAL SPECIFICATIONS		
Operating Temp. Storage Temp. Relative Humidity	: -15°C to +45°C : -10°C to +50°C : 10% to 90% RH, Non- Condensing	
SENSOR		
Sensor Technology Response time	: Electrochemical / NDIR technology : < 30 Secs	

Modem : 4G GSM Connectivity : Dual SIM card slots for Redundancy with Auto SIM switching in case of network failure Antenna : Up to 15 dBi : Internal / External (in low network area) ALERTS AND DATA CONNECTIVITY Modes : Alarms : 2 settable alarms, sensor fault, open, over. Healthy Alerts : Dataget Sattery status, sensor fault and alarm status HOUSING FOR DETECTOR Protection class : IP-66 for GAS Gr. IIC PESO approved enclosure Cabinet Material : Cast Aluminium, LM-6 Dimension : 2 wall Mounting Weight : Yeight :	NEIWORK			
Modes : SMS/MQTT/ TCP-IP* Alarms : 2 settable alarms, sensor fault, open, over. Healthy Alerts : Daily Multiple SMS notification of device status Details : Battery status, sensor fault and alarm status HOUSING FOR DETECTOR Protection class : IP-66 for GAS Gr. IIC PESO approved enclosure Cabinet Material : Cast Aluminium, LM-6 Dimension : 247mm (W) x 213mm (H) x 120mm(D) - FLP Mounting : Wall Mounting			Dual SIM card slots for Redundancy with Auto SIM switching in case of network failure Up to 15 dBi	
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Note: *Marked points available only on request/ under development / in externally powered / Solar Devices.

Note: Above application may change as per indoor & outdoor requirements.

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