



Designed for Hazardous Applications
Class I, Div. 1
Groups BCD

Up to 6 Watt UHF/VHF Radio

Non-Intrusive Calibration
Magnet/LED Driven

Ideal for offshore platforms and drilling rigs

where surrounding metal structures may interfere with low powered, non-licensed radio signals

Explosion Proof Wireless Gas Detection

The Gastronics True Wireless Explosion Proof Gas Monitors are available for measuring H2S and Combustible Gases for Hazardous Locations.

Using up to 6 Watts of Power on a UHF / VHF licensed radio frequency, the TW-XP can transmit and receive data for miles without direct line of sight or repeaters. The dual purpose circuit board can act as a 3-Wire fixed system monitor and then by adding the internal radio, the TW-XP becomes a UHF/VHF wireless monitor. Capable of quarter, half and full channel spacing operation, the TW-XP is compatible where refarming compliant narrow band frequencies have been assigned.

Wiring Connection Port
3/4" Female Pipe Thread

Features and Benefits

- Ideal for areas where metal structures may interfere with low powered, non-licensed radio signals.
- Spare input for a 4-20 mA, 2 or 3 Wire auxiliary device, such as level, flow or valve position.
- Includes 2 relays that can be used for both alarms as well as activating a valve.
- Microprocessor firmware can be flashed to the monitor circuit board in the field with a laptop computer.
- Calibration and Telemetry settings are easy to control with a non-intrusive magnetic tool.
- Remote Radio silence can be enabled and disabled from a base transceiver.

Available Sensors:

- Combustible Gas Catalytic Bead
- Combustible Gas Infrared
- Solid State Hydrogen Sulfide

Fixed Base Transceivers (Portable Optional)

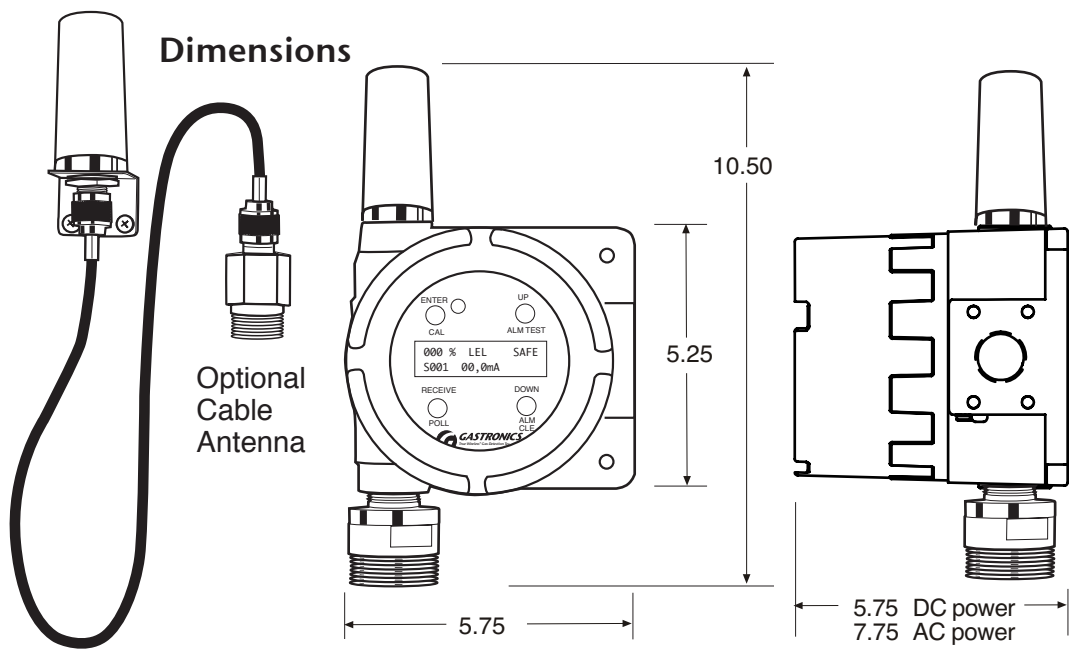
Optional Base Transceivers using RG10-RTU, RG9-RTU, RG5-RTU, or RG3-RTU.

Outputs include- Modbus-RTU Output, Ethernet, ASCII, Analog I/O, Digital I/O and Speech Auto-Dialer.



Portable transceiver

• Data reporting includes Gas Reading, 0.0-20.0 Auxillary Analog Input Reading, Temperature, and Relay/Alarm Status. Base Transceivers can provide Analog and Digital Outputs as well as Modbus-RTU Communications to a DCS or SCADA. The TW-XP system is also compatible with Safer Systems® plume dispersion modeling software.



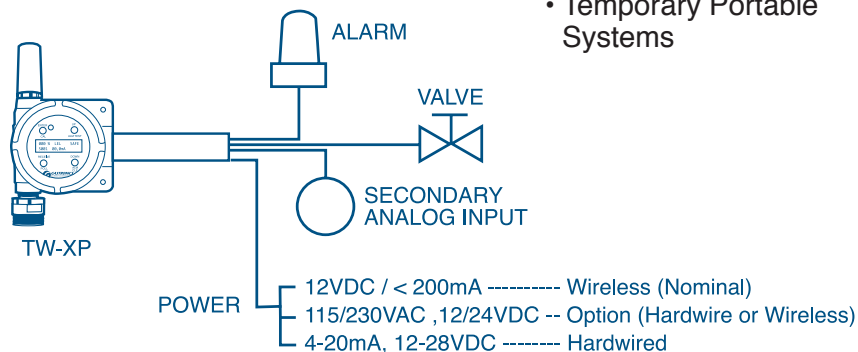
Applications

- Oil and Gas Drilling Platforms
- Gas Wells
- Tank Farms where Gas and Level are Monitored
- Pipe Lines
- Refineries
- Propane Storage Tank Areas
- Sewage Treatment Plants
- Wireless Transmission of 4-20mA Devices
- Temporary Portable Systems

Sensor Types

- Combustible Catalytic Bead (0-100%LEL)
- Combustible Infrared (0-100%LEL)
- Solid State Hydrogen Sulfide (0-100 PPM)

Wiring Diagram



Radio/Modem Specifications

Available Frequencies:

FCC Identifier

Industry Canada Identifier

Baud Rate (over-the-air)

Ultra Narrow Mode - 4.8kHz

Narrow Mode - 11kHz

Wide Mode - 16kHz

Number of Channels

Frequency Stability (-30 to +55C)

Supply Voltage (VDC)

Operating Temperature

VHF

136-162 MHz

148-174 MHz

AIERIT25

1084A-25150

4800 bps

9600 bps

19200 bps

2

1.0 ppm

11-16

-30 to +55C

220MHz

217-245 MHz

AIERIT25-250

1084A-25250

4800 bps

9600 bps

19200 bps

2

1.0 ppm

11-16

-30 to +55C

UHF

400-420 MHz

450-470 MHz

AIERIT25-450

1084A-25450

4800 bps

9600 bps

19200 bps

2

1.0 ppm

11-16

-30 to +55C

Hazardous Classifications

Explosion Proof; UL 1203/CSA30

Class I Div.1, Groups B,C,D pending

Specifications subject to change without notice

Overall Product Parameters

Operating Temperature Range: -20 to +50C

Operating Voltages: Hardwired - 12-28 VDC

Wireless - 115/230 VAC; 12/24 VDC, Solar

Wireless Nominal Current Draw at 12 VDC: < 200mA

Relay Ratings: 2A@ 30 VDC, 0.4A@125 VAC



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