

WIRELESS GAS DETECTION



GAS DETECTION TECHNOLOGY

When Cables are not an option .Complete wirefree solutions from sensors to monitors. We have got you covered.



WIRELESS MONITORS & SENSORS

Monitor & Controller

Model PT2008 Monitor interfaces with up to 64 Ultra 1000 series sensors, toxic and combustibles. over wireless network. Operating frequency is 900 MHz. Displays sensor gas reading and status like sensor calibration, fault and battery voltage. Also available with real time data logging.

- * 117VAC or DC Powered
- * 900 MHz Spread Spectrum Radio
- * Interface to wireless remote relay module for Emergency shutdown and remote alarms
- * Large Graphical LCD with back light
- * 6 Form "C" type fully programmable alarm relay contacts
- * Sensor diagnostics such as low sensor battery, sensor malfunction and sensor calibration
- * Real time historical data logging
- * RS485 MODBUS RTU Communication for PLC and DCS Systems
- * User programmable sensor locations / tags
- * Front Panel LED indicators for Alarm status and sensor sensor malfunction
- * Range: 5 Miles with dipole antenna, 20 miles with high gain antenna, clear line of sight
- * Wall mount fiberglass enclosure



Ultra-1000 Wireless Sensor

Ultra 1000 Series sensor is a complete stand alone unit with solar array and integrated battery charger. The unit is powered by a NiMH battery. The unit is active all the time with LCD constantly displaying gas level. Hence NO sleep mode. Simple pole mount with pre-assembled power cable connector.

- * Complete stand alone with solar panel with integrated battery charger and NiMH battery
- * Continuous monitoring with no sleep mode.
- * 900 MHz Spread Spectrum Radio
- * Non-Intrusive fully automated sensor calibration



Why Wireless ?



Pem-Tech's cutting edge wireless gas detection is designed for continuous monitoring of toxic and combustible gases in air. No complicated system configuration is needed. Simply assign a unique address to the remote sensor and you are done. The gas monitor will collect all the necessary data information from the sensor including the target gas type. On board historical data logging available as well as RS485 MODBUS RTU communication for PLC and DCS system. Easy connectivity to remote relay module for audio and visual alarms or Emergency Shut Downs (ESD).

- * Reduced Installation cost. No more expensive cables and underground cable conduits.
- * No trouble shooting for the cables.
- * No damage to the main controller in the event of lightning and storms
- * Easily add more sensors in the existing wireless network
- * No complicated system configurations.

Solar Powered
Sensor & Transmitter



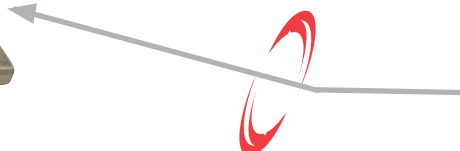
Alarm Station
With Remote
Relay Module



PC Running
SCADA System



MODBUS RTU
Serial Communication



PT2008 Wireless
Gas Monitor & Controller