

Submittal Data Sheet

Features

The Powerex Med Touch Wireless Master Alarm Panels are designed to provide years of trouble free reliable operation. With up to 64 alarm points available to monitor critical equipment for your facility, and provide alarm conditions as required by the latest edition of NFPA 99. Tri-Tech Wireless Master Alarm networks drastically reduce installation costs by eliminating most of the low voltage wiring. The alarm is ETL listed to UL 1069 and CSA C22.2 #205 Signal equipment.* The wireless network monitors and displays normal and alarm conditions from local source sending panels to two master alarm panels. Repeater panels may be added to the network as needed to boost signal communication.

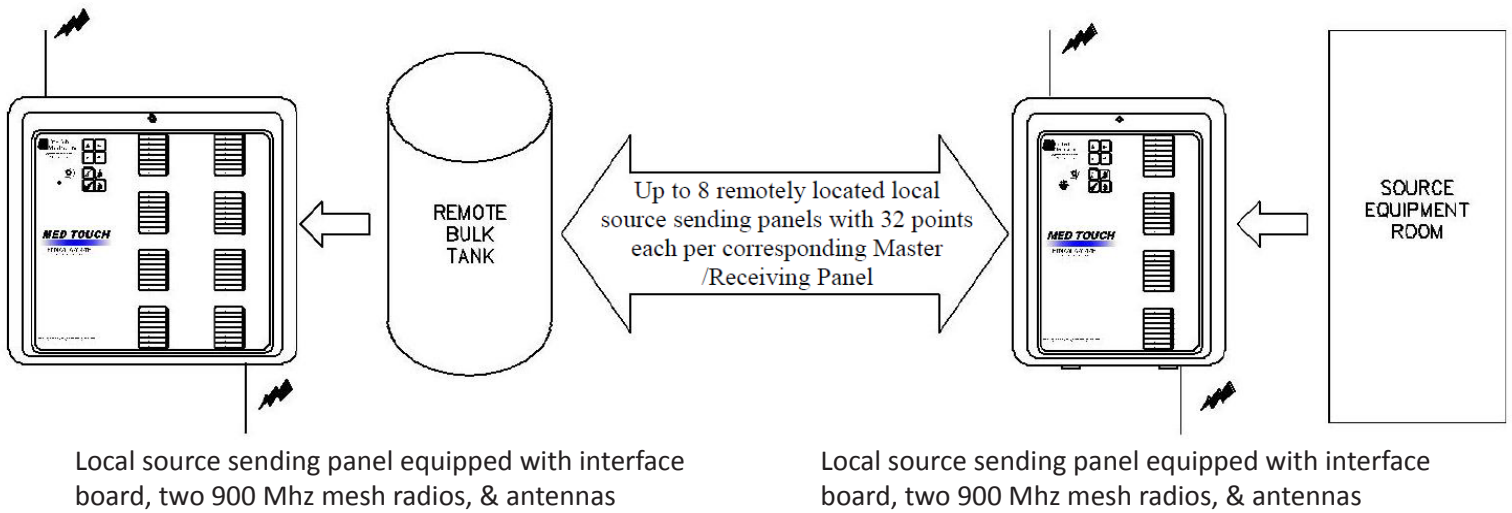
- Complies with NFPA 99. Made in the U.S.A.
- Broadcast up to ½ mile thru steel, brick & mortar.
- Secure – utilizes FCC regulated bandwidths and unique hopping and network I.D.'s.
- Mesh-network transceivers.
- Repeater panels available – if needed.
- Microprocessor controlled.
- Constant display & monitoring of each source alarm signal.
- Hinged frame with lanyards for easy accessibility.
- A 'general fault' set of dry contacts with relay to trigger an optional remote alarm in the event of an alarm condition.
- Weatherproof local source sending panels available.
- 2.85" LCD touch screen displays up to 8 normal and alarm conditions for pressure switch sensor inputs.
- The LCD touch screen allows all alarm programming and set up to be done without the use of tools.
- A green normal or red alarm condition for each gas services confirms the condition for each individual gas service.
- Emergency preparedness instructions - Med Touch alarm panels allow users to set up customized instructions for each alarm signal, to appear on the screen when the signal is in alarm.
- Up to 64 signal points in a single sending panel.
- Up to 32 signal points in a single receiving panel.
- Last event history (per signal point).
- NFPA and ISO pre-loaded gas 'labels'.
- English, and English/French pre-loaded languages.
- Editable text and alarm 'labels'.
- Self-contained unit - Designed for ease of installation and service.
- Self-diagnostic and error message display for ease of maintenance.
- Audio and visual alarm indicators.
- Bright easy to read LCD displays – clearly visible in both day and



night lighting conditions.

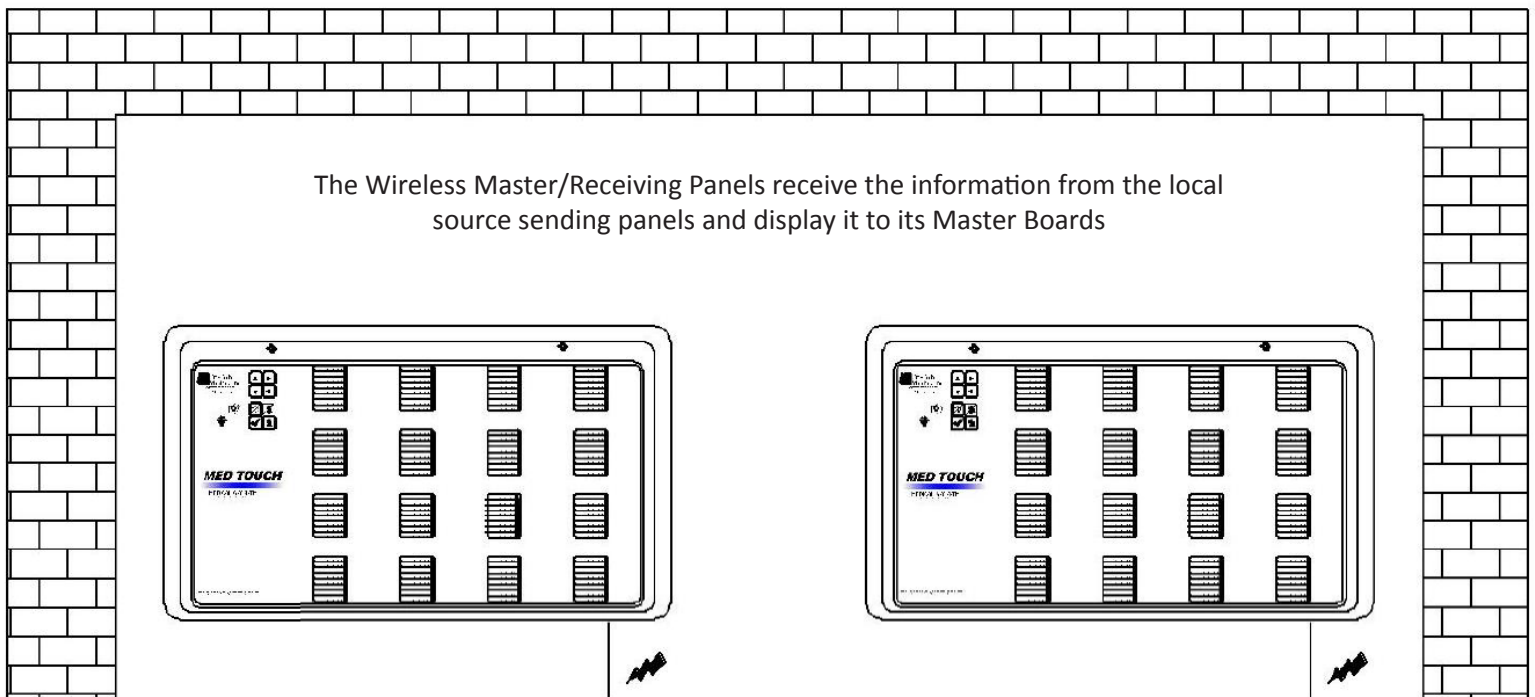
Specifications

The Master Alarm Panel shall be the Tri-Tech Medical Wireless Master Alarm Panel. The panel shall be microprocessor controlled and designed to comply with NFPA 99. The panel shall be 100% digital and shall not require recalibration. The panel shall be able to interface with building management systems with the use of optional Ethernet Modbus or Ethernet BACnet modules. The wireless master alarm panel shall be compatible with the T-Net PC based medical gas information management system. The alarm panel shall be enclosed in a steel box and shall be designed to accept an electrical input range of 120-240 volts AC – 50-60 hertz. The source voltage shall be stepped down to low voltage DC control voltages (24V and 5V) by means of a self-contained power supply. The panel shall contain audible and visual alarm indicators. The audible alarm may be silenced by pressing the alarm silence button, but the visual alarm indicator can only be cancelled by fault correction. Each signal point may be individually programmed to accept Normally Open or Normally Closed signals, or may be disabled and is factory preset to accept Normally Closed signals. The alarm shall detect and filter out transient signals (less than 0.7 seconds). The alarm shall be capable of displaying last alarm history for each signal point.



In the local source sending panels, an internal circuit board polls the status of the source equipment to which it is wired and transmits the status to the listening Wireless Master/Receiving Panel using wireless mesh techniques. The transmissions occur continuously (every few seconds) and the required visual and audible alarms are triggered whenever a switch input changes.

Two transceivers are actively used in each local source sending panel for redundancy. With 900 MHz ISM mesh technology, every local source sending panel also acts as a Repeater, retransmitting messages from other local source sending panels to insure that the data reaches the facility's Wireless Master /Receiving Panel.



Ordering Information

Panel Type	NFPA – US Model #	Description
Local Source Sending	PX-STU84-MS-03	Weatherproof 8 point (2 slot) local source sending panel
	PX-STU164-MS-03	Weatherproof 16 point (2 slot) local source sending panel
	PX-TU84-MS	8 Point (2 slot) local source sending panel
	PX-TU164-MS	16 Point (2 slot) local source sending panel
	PX-TU244-MS	24 Point (2 slot) local source sending panel
	PX-TU324-MS	32 Point (2 slot) local source sending panel
Master/Receiving	PX-TU84-MR	8 Point (2 slot) master receiving panel
	PX-TU164-MR	16 Point (2 slot) master receiving panel
	PX-TU16B4-MR	16 Point (3 slot) master receiving panel with blank future slot
	PX-TU244-MR	24 Point (2 slot) master receiving panel
	PX-TU324-MR	32 Point (2 slot) master receiving panel
	PX-TU32BBB4-MR	32 Point (5 slot) master receiving panel with three blank future slots
Master/Receiving panels only: For optional Ethernet Webserver and Modbus interface modules add a 2 after the last number 4 - example TU3242-MR For optional Ethernet Webserver, Modbus and BACnet interface modules, add a 3 after the last number 4 - example TU3243-MR		
Repeater	PX-DU-Repeater4	Indoor repeater (2 slot)
Tranceiver Programming Kit	PX-35-3023	Kit to program wireless transceivers

Additional Features

- Individual user programmable remote signal alarm points to accept NO or NC signals, or may be disabled. Factory preset to accept Normally Closed signals.
- LCD indicators (Green) confirms normal status, (Red) indicates abnormal condition.
- Menu of NFPA 99 master alarm signals for quick, easy selection.
- Alarm repeat feature is factory set as off, and is adjustable.

As options, the panel shall be able to:

The following options shall be able to be added to the panel at the time of order or after installation;

- Optional Ethernet module. This module may be added to any alarm panel. It will provide the following features:
 - Optional Text / e mail notification of alarm events sent to up to 5 addresses.
 - Webserver – allows a remote user access to the alarm’s webpage – viewing a graphic image of the alarm with all signal conditions, pressure & event / history log information.
 - Text notification of alarm conditions (up to 5 addresses).
 - Event / history log – maintains a rolling list of the 100 most recent alarm condition events and a file of the 1,000 most recent alarm events and is downloadable through embedded web pages.
 - Optional Ethernet connection for BACnet or Modbus transmission of signals to a building automation system.
 - Optional Ethernet connectivity with embedded web page.