mPower Electronics
Making Powerful Senses

VOXiWatch 8W

MP884 8 Channel Wireless Controller
Quick Start Guide



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v1.0

Read Before Operating

The VOXi Controller full User's Guide must be carefully read by all individuals who have the responsibility of using, maintaining, or servicing this product. The product will perform as designed only if it is used, maintained, and serviced in accordance with the manufacturer's instructions.

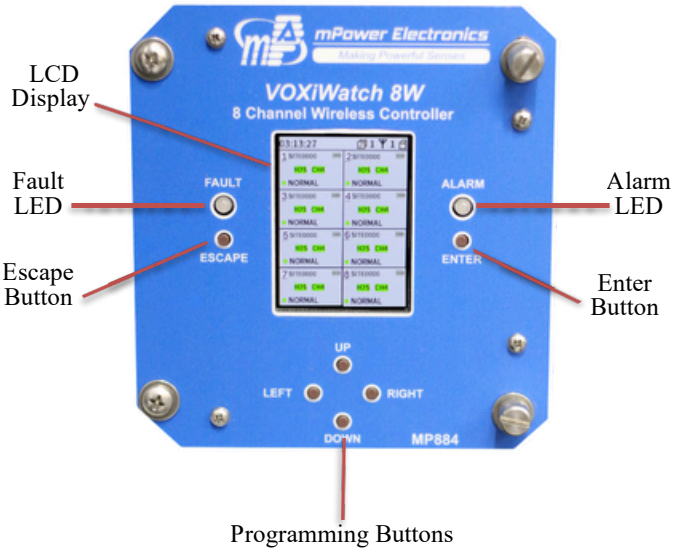
Mounting

Mount the VOXiWatch 8W Controller on a flat surface, making sure there is at least 12" (30 cm) of clearance around the unit. The VOXiWatch 8W Controller is NOT certified for use in hazardous gas locations and should only be mounted in non-hazardous areas.

The VOXiLink Transmitters may be mounted in hazardous locations and wirelessly connected to the MP884 Controller outside the hazardous area.

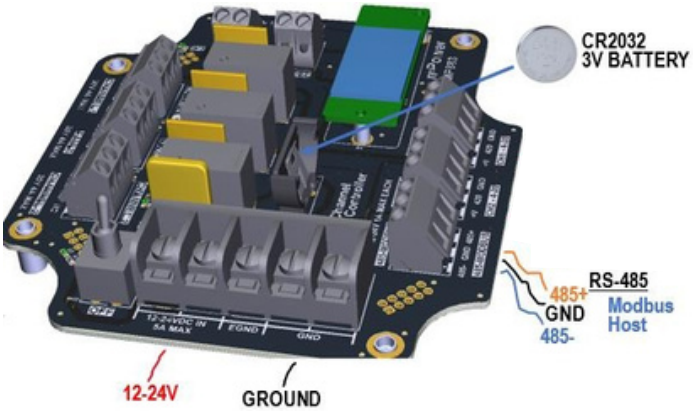
User Interface

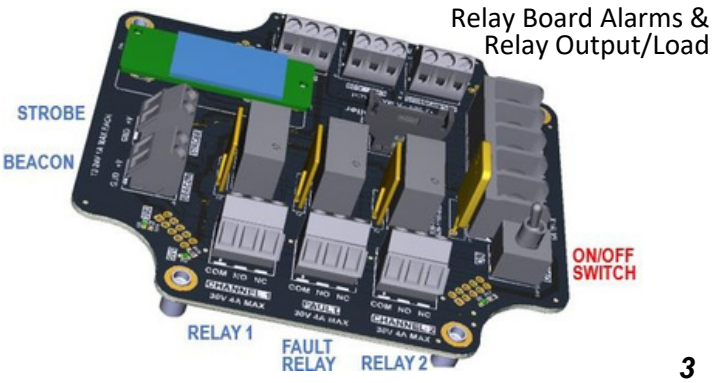
The MP884 is a remote controller, display and alarm for up to 8 wireless VOXi transmitters. The user interface has an LCD graphic display, LED indicators, and 6 push-buttons for programming.



Wiring Connections

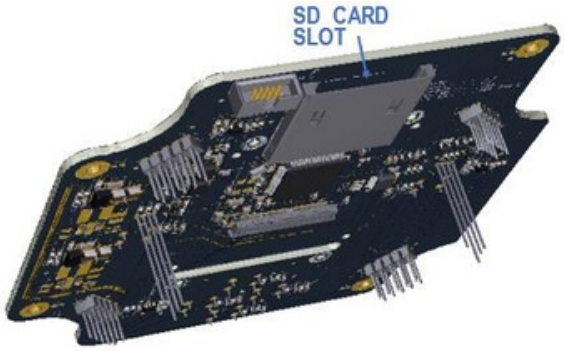
Relay Board and RS-485 Modbus





SD Card

The provided 32GB SD card can be used to log events such as power on/off, calibration, alarms, and faults. The only compatible size of SD card is 32GB. Insert the card in the slot on the back side of the main circuit board. If no SD card is present, the ALARM LED will show solid red after the power-on self-testing. You can remove the data on this controller using mPower Suite. This uploads the data directly to the computer as a CSV file.



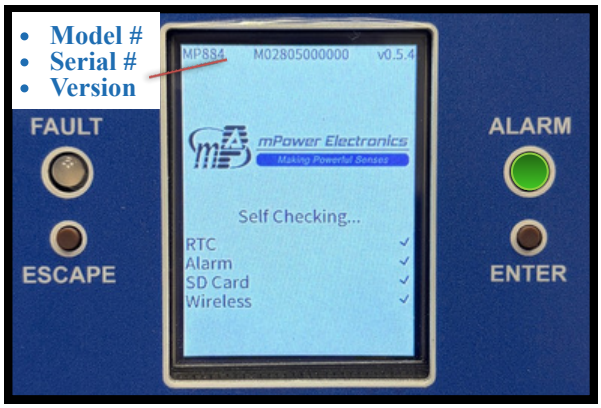
Battery

A CR2032 3V button cell battery is used to back up the real time clock in case main power is lost.

Start Up

The 12-24VDC or 110VAc is connected through the power supply to supply 12-24VDC to the board. Once the board is powered up, it goes through a self-check of the RTC, Alarm, SD Card, and Wireless.

Start Up Display



Operating Display

When the start up is complete, the gas concentrations are displayed. If any alarm level is exceeded, the Alarm LED flashes yellow and the display backlight changes color. If the Alarm LED is green, all is Okay.



Operating Display (continued)

The operating displays include:

Condition	Panel Backlight	LED
Normal	Green	Green Steady
Low Alarm	Orange	Yellow Flashing
High Alarm	Red	Red Flashing
High High Alarm	Red	Red Flashing
Sensor Warm Up	Light Blue	Blue Steady
Cal in Progress	Light Blue	Blue Steady
No Signal	Dark Blue	Blue Flashing
Sensor Fault	Dark Blue	Blue Flashing

Programming

- **Enter Setup Menu:** Press and hold the Escape and Enter buttons simultaneously for 5 seconds and enter the password (if activated). The default is 0000.
- **Navigating Menus:**
  - **Up & Down** keys move the cursor or increase & decrease numbers in editing mode (underline).
  - **Enter** enters a sub-menu, enters/exits editing mode, or saves a change.
  - **Escape** exits the sub-menu or main menu.

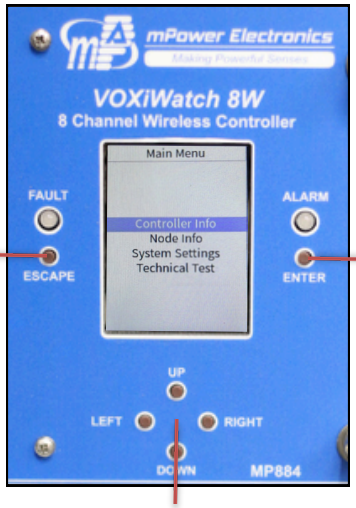
Relay/Alarm Test

Enter Technical Test from the Setup Menu to test alarms and relays.
Shortcut: You can also test alarms by holding the Up key.

Programming (continued)

- **Main (Setup) Menu:** The Setup Menu has 4 items – Controller Info, Node Info, System Settings, and Technical Test.

- Hold Escape & Enter 5 sec to enter setup
- Press Escape to reverse a step/exit menu



- Hold Escape & Enter 5 sec to enter setup
- Press Enter to select or save

UP/DOWN:
Scroll or change value

Programming (continued)

• **Sub-Menus**

The sub-menus are listed below

System Settings	
Sub-Menu	**Function**
Date Time	Set date, time, time zone, date format, and time format
Wireless	Set Channel ID, Network ID, and Network Mode (Server Client)
Modbus	Set Baud Rate and Modbus Address
Alarm Output	Programmable Relays and Programmable Nodes for Alarms
Password	Change password

Programming (continued)

Technical Test	
Sub-Menu	**Function**
Wireless Test	Test Controller and Transmitter Wireless Connection
Relay Test	Test Fault Relay, Relay1 Relay2, Strobe Relay, and Horn Relay
Alarm Test	Test Fault Alarm, Low Alarm, High Alarm, and HiHi Alarm