

VOXiLink

MP87X Series

Quick Start Guide



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v1.0

Read Before Operating

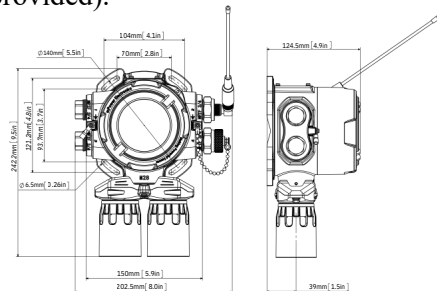
The VOXiLink User's Guide must be carefully read by all individuals who have or will have the responsibility of using, maintaining or servicing this product. The product will perform as designed only if it is used, maintained and serviced in accordance with the manufacturer's instructions.

Warnings

- Never operate the transmitter when the cover is removed.
- Remove the transmitter cover only in a non-hazardous area.
- Use only mPower's sensor and accessories. Substitution of components will impair intrinsic safety and void warranty.
- For optimal results, it is recommended to allow the unit to warm up for 2 minutes after entering the test interface. For maximum safety, the accuracy of the instrument should be checked by exposing it to a known concentration calibration gas at regular intervals.
- Ensure that the gas inlet is not blocked.
- Ensure that all filters are clean and replaced on a regular basis.
- Remove the sensor only if necessary for repair. Zero and span calibration are required once the sensor is installed.

Mounting

Mount the VOXiLink to a metal surface using the pre-attached magnets (or to a wall or pole using the bracket and pole loops provided).



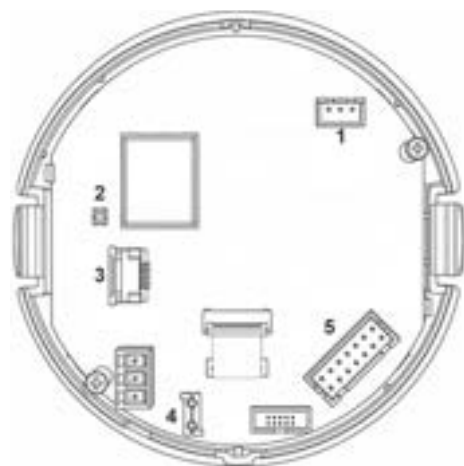
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User Interface

The user interface of the VOXiLink has an LCD graphic display and LED indications. The operations are controlled using a toggle button or an IR remote programmer.



PCB Board



PCB Connection

1. Battery pack socket
2. Wireless module socket
3. Button socket
4. Ground (GND)
5. Sensor socket

*The ground wire must be connected to the VOXiLink housing reliably. We recommend using AWG11 as ground wire.

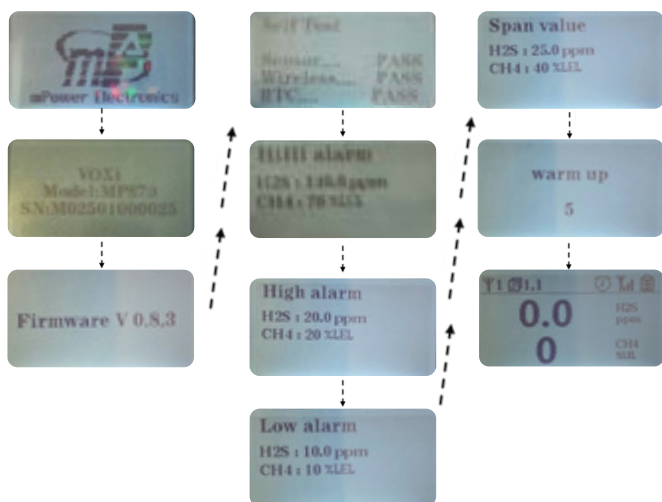
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Start Up

Supply the battery pack with four 3.6V C-size lithium batteries to the VOXiLink. Turn on the VOXiLink by pressing and holding the Power & Control Toggle until the screen lights up. It enters the self-test process, displaying the sensor range, high/low alarms, span value and the LEDs are tested.

When the startup is complete, the sensor readings are displayed. Sampling is by diffusion. If any alarm level is exceeded, the Alarm LED flashes and the display backlight changes color.

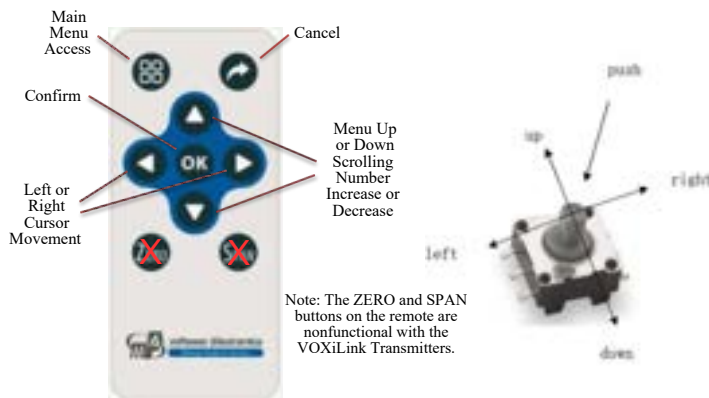


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Infrared Remote Programmer

The Remote Programmer uses a CR2025 3V battery and communicates with the transmitter from up to 3 m (10 ft), when directed straight at the transmitter display (instead of from an angle).

The remote or Power & Control Toggle can be used for menu controls. To turn on the VOXiLink the Power & Control Toggle must be used.



Note: The ZERO and SPAN buttons on the remote are nonfunctional with the VOXiLink Transmitters.

Control	Toggle Action
Menu	Long Up (3 Sec)
Up Key	Up
Return Key	Double Push
Right Key	Right
Down Key	Down
Confirm Key	Push
Left Key	Left

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Programming Interface

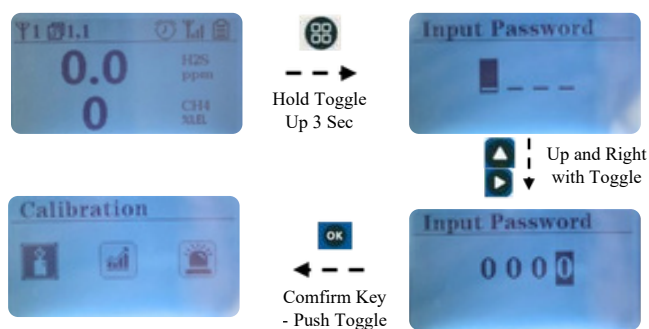
The VOXiLink switches to a programming display when initiated by the infrared Remote Programmer or using the Power & Control Toggle.

- **Enter Menu:** Press the Menu Access key (☐ or hold up for 3 secs on toggle) and enter the password. Use the up/down keys to increase or decrease numbers and left/right keys to move the cursor. After entering the last digit, press OK on the remote or push toggle to enter the menu.
- **Basic vs Advanced Menus:** The default **Basic password** ("0000") gives access to the most common functions such as zero calibration, span calibration, calibration gas concentration setting, and high/low alarm settings. For more advanced features, including site ID, wireless settings, etc., enter the **Advanced password** ("8888").
- **Enter Selection:** Use the right/left and up/down keys to scroll through the menu, and the OK key or push toggle to select the item.
- **Exit:** To exit a sub-menu, press the Return key (⏮ or double push toggle). To exit the Main Menu and return to the reading display, double push toggle or press Return key on remote.

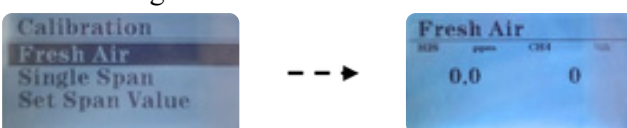
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Programming Interface

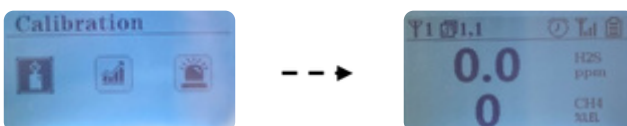
Enter the main menu, then enter the password



Scroll through the Menu



Exit the Menu



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Zero Calibration

Zero calibration must be done with clean air. If the ambient air is suspected of having a background of detectable chemical, use pure air or nitrogen from a cylinder to ensure a proper zero. To apply gas, attach the calibration adapter. If no calibration adapter is available, the rain cap with the provided tubing can be used as an alternative.



- Enter the main menu, scroll to Calibration and then select Fresh Air, apply zero gas if needed and press OK on remote or push toggle to start the zero calibration.
- A 15-second countdown is initiated, after which Pass or Fail is displayed.
- To abort, press .



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Span Calibration

- Enter the main menu, scroll to Single Span to check that the span is set to the same value as the gas cylinder.
- Select the sensor. Connect the calibration gas, start the gas flow (0.5 LPM preferred), and press OK on the remote or push toggle.
- A countdown timer is started with length depending on sensor type, after which Pass or Fail is displayed.
- To abort, press .



Span Gas Setting

Enter the main menu, scroll to Set Span Value, and press OK. Select the sensor. Select Change and adjust the span gas concentration using the up & down keys and move the cursor using the left & right keys. Press toggle or OK on the remote to save.



Sensor Replacement

- Unscrew and remove the rain cap.
- Unscrew and remove the sensor housing cap.
- Use your thumb to lift the metal sensor ring. Pull the ring to remove the sensor from the sensor housing.
- Insert a new sensor element into the sensor housing.
 - Use the metal sensor ring to handle the sensor element
 - Align all components to ensure a proper connection
 - Reassemble in reverse order.



DO NOT PUSH THE NEW SENSOR INTO THE SENSOR HOUSING WITH YOUR THUMB!

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