Product Overview

The MIWI350 product is designed to replace the current Honeywell MiWireless platform with a more competitive, reliable and easy to use solution. The MIWI350 product line provides a comprehensive selection of communication hardware and power supply systems optimized to integrate with Mercury Instruments' precision measurement instrumentation. It also includes software for Remote Monitoring and Data Acquisition (RMADA), including alarm handling and notification.

The MIWI350 device includes:

- An inbuilt Electronic Volume Corrector or Electronic Recorder
- A built-in electronic cellular modem

Product Features

- CSA C/US Class 1, Division 2, Group C & D
- Compatible with MasterLink and Power Spring software
- Available in UMB (Universal Mounting Bracket), Wall, Pipe, and Portable mounting options
- Internal or External Mounted Display
- Modem Power Control
- Optional Backup Battery for Uninterrupted EVC Functionality

Power Supply Options

- Solar Power with rechargeable Sealed Lead-Acid Battery (Refer to FD-612)
- Battery - Alkaline Packs (Dual/Quad) (Refer to FD-613)
- External DC Supply Input (7.5V to 24V) (Refer to FD-614)

This quick-start guide covers Solar Power with rechargeable Sealed Lead-Acid Battery option only.

General Safety Precautions

- Lock the battery mount bracket flip cover properly after mounting the battery
- Close the door of the MIWI350 device properly
- Check the lock and latchet, and lock the MIWI350 device properly
- Check the padlock properly while locking the MIWI350 device

Safety and Hazardous Information

MIWI350 complies with the general safety standards and regulations. MIWI350 is approved for use in hazardous areas (Class I Division 2). Check the operating condition limits of MIWI350 before installing. You must be familiar with the currently applicable electrical installation standards and regulations before installing and operating MIWI350 in hazardous areas.
Warning: Denotes an explosion hazard. Ensure you follow all instructions described in the warning notification.
Caution: The caution warns you of possible damage to property and provides instructions to avoid damage to MIWI350.
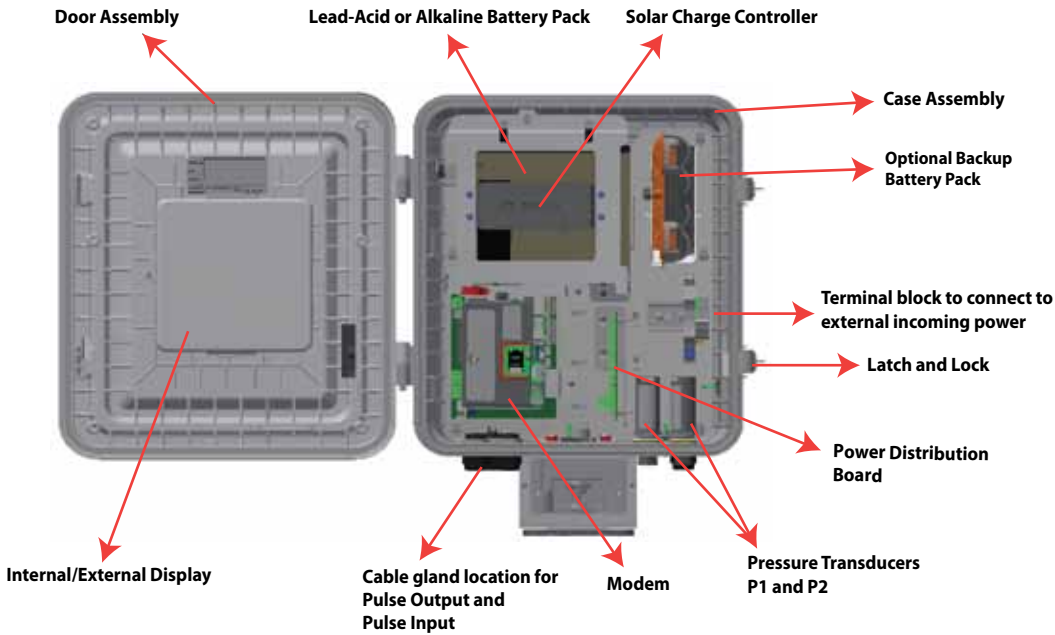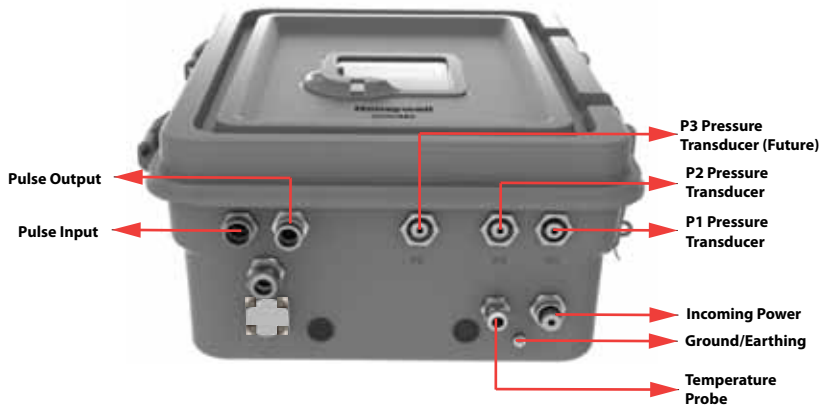For more information on MIWI350 user manual, refer FD-610.

Unpacking

After you receive the MIWI350 device:
1. Remove the contents from the box and from the mounting kit bag.
2. Check the shipment against the invoice to ensure that the components ordered are installed in MIWI350.
3. Report any shortage or shipping damages to your nearest Honeywell Account Manager.

MIWI350 Device with Door and Case Assembly

Door Assembly

Lead-Acid or Alkaline Battery Pack

Solar Charge Controller

Case Assembly

Optional Backup Battery Pack

Terminal block to connect to external incoming power

Latch and Lock

Power Distribution Board

Internal/External Display

Cable gland location for Pulse Output and Pulse Input

Modem

Pressure Transducers P1 and P2

Cable Gland Entries

Pulse Output

Pulse Input

P3 Pressure Transducer (Future)

P2 Pressure Transducer

P1 Pressure Transducer

Incoming Power

Ground/Earthing

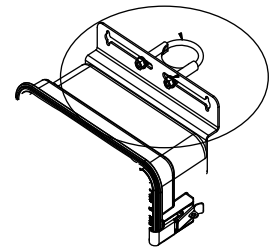Temperature Probe

Instrument Mounting Options

Install the MIWI350 device using one of the following mounting options:

UMB Mount on the Meter

Wall Mount

Pipe Mount

Portable Mount
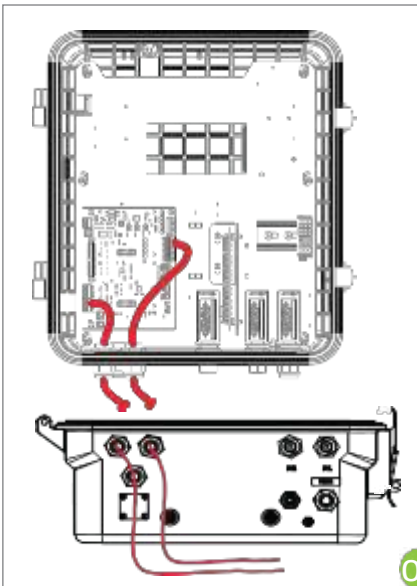
Setting up the MIWI350 Device

01 Release the door latches of the device one at a time, and open the door of the device

02 Install UMB on Instrument Drive gas meter (if applicable)

03 Route the pulse input/output cables through the glands (if applicable)

04 Install the temperature probe to the pipeline and tighten the nut to avoid leakage (if applicable)

05 Route the external power cable through the 05 gland and connect to power terminal block

Battery Installation

For a fresh Lead-Acid Battery, the No Load Voltage is expected to be between 12.5–13.5VDC.

WARNING: Please perform the No Load Battery Voltage measurement in an area rendered Non-Hazardous. Please Exercise Caution to ensure the Battery Terminals do not come in contact in any metal other objects during the measurement/handling.

06

Quarter turn the screw and open the battery mount bracket flip cover (–cw)

07

Insert the battery in the mount bracket carefully

08

Connect the battery pack cable to battery charge controller cable

09

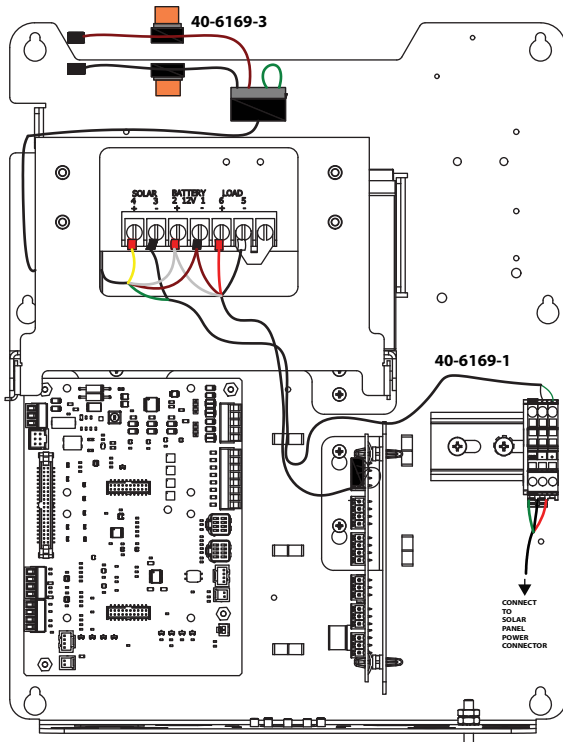Close the battery mount flip cover and turn back the screw (+cw)

10

Close the door of the device properly. Also, check the padlock, latchet, and lock the device.
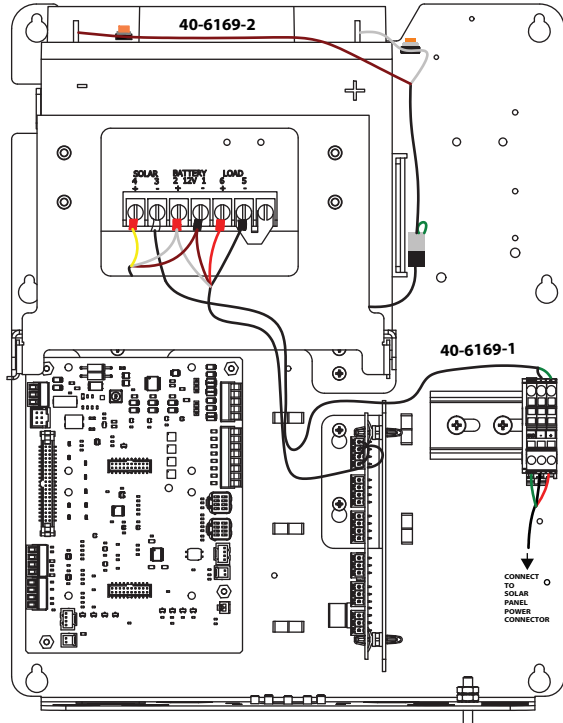
11 Configure modem/EC/ERX350/HMI settings
(For more information, refer MIWI350 Installation and Operational Manual - FD-610)

Reference Wiring Diagrams

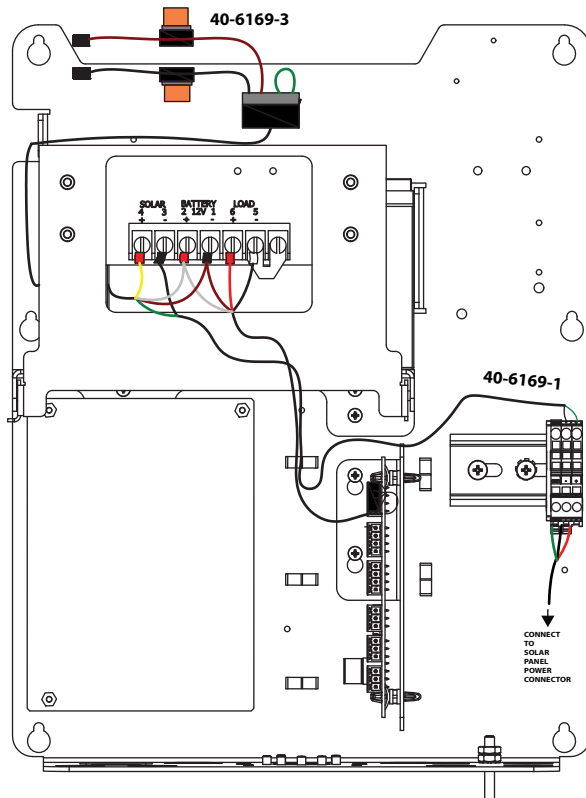## Solar Power Supply Wiring with MIWI350–EC or MIWI350–ER
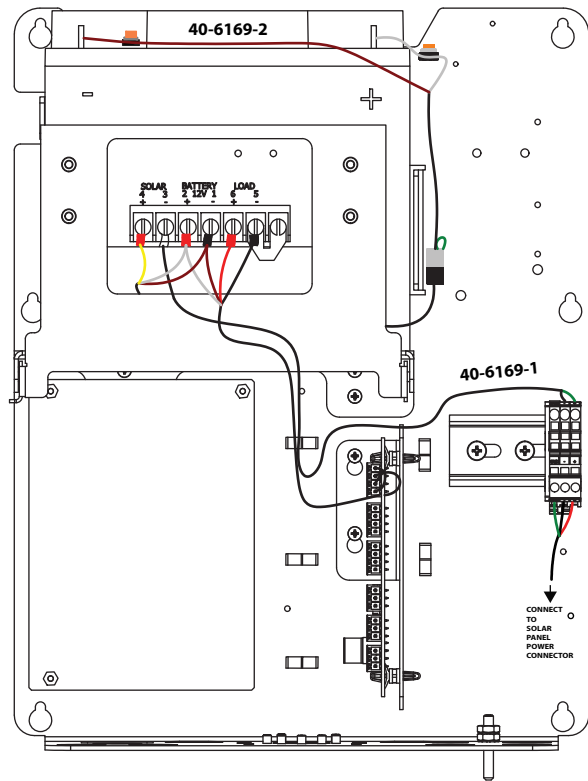

SOLAR POWER with 7Ah BATTERY

SOLAR POWER with 21Ah BATTERY

Note: The cable color code/pin mapping are only for illustration purpose and don't match the actual cables.

Solar Power Supply Wiring without MIWI350–EC or MIWI350–ER

SOLAR POWER With 7Ah BATTERY

SOLAR POWER With 21Ah BATTERY

Note: The cable color code/pin mapping are only for illustration purpose and don't match the actual cables.

List of associated cable assemblies pre-installed in the device

Part Number	Description
40-6163-1	POWER SUPPLY CABLE AC-DC TO PD BOARD
40-6169-1	SOLAR CHARGE CONTROLLER LOAD O/P CABLE
40-6169-2	21Ah LEAD-ACID BATTERY CABLE
40-6169-3	7Ah LEAD-ACID BATTERY CABLE
40-6186	CABLE POWER T/B TO AC-DC MIWI350

NOTES

For more information:

To learn more about Honeywell's Smart Gas Metering Solutions, visit www.honeywellprocess.com or contact your Honeywell Process Solutions representative.

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