



# MIWI350 POWER AND COMMUNICATION ASSEMBLIES

## Flexible Data Communications Assemblies for the Natural Gas Industry

### Brief information

The MiWireless 350 (MIWI350) product line provides a platform based comprehensive selection of communication hardware and power supply systems, optimized to integrate with the Honeywell Mercury® precision measurement instruments.

The MiWireless 350 platform leverages the latest innovations in battery operated instruments such as the EC 350 and ERX 350, low power 4G cellular radios such as Cloud Link R100 or Cloud Link with Cat M1 radio support, and the Cat M1 5G cellular modem, i.e. Cloud Link 5G.

The MiWireless 350 products can be used as :

- Pressure Monitor in the gas transmission and distribution lines.
- Electronic Volume Correction in demanding custody transfer applications.
- Communication assemblies in Hazardous locations.
- Power assemblies for remote equipment.

This platform can be configured using the same MasterLink software that is used to configure other Honeywell Mercury® electronic volume correctors, data loggers and Modems. No additional software is required. MiWireless can also be seamlessly integrated in PowerSpring or TDS based solutions.



Figure 1: MIWI350

## FEATURES

- 4G Cat 3 cellular radios.
- 4G Cat M1 low power cellular radios.
- 5G Cat M1 low power transparent serial modem.
- Internal antennas.
- Modem power control.
- Voltage monitoring.
- 22Ah Battery.
- Digital Plug and Play Pressure transducer.
- Easy to maintain/ troubleshoot.
- CSA C/US Class-I, Div-2.
- IECEx Zone 2
- Flexible mounting configurations.
- Internal or External LCD display.
- Configured through MasterLink programming software.
- 4 years Warranty.

## TECHNICAL SPECIFICATIONS

PARAMETER	DESCRIPTION
Cellular Modems supported	<ul style="list-style-type: none"> <li>• Cloud Link R100 : Cat 3 radio.</li> <li>• CloudLink R110 : Low Power Cat M1 radio.</li> <li>• CloudLink 5G: Cat M1, low power transparent serial modem.</li> <li>• Sierra Wireless RV50 Modem.</li> </ul>
Power Supply Options	<ul style="list-style-type: none"> <li>• 7Ah Alkaline rechargeable sealed battery.</li> <li>• 22Ah Alkaline rechargeable sealed battery.</li> <li>• 120Vac/12-15Vdc adjustable power supply.</li> <li>• 10W, 20W, 30W, 40W or 90W solar panel.</li> <li>• Alkaline receptacle (backup power for Volume Corrector/ Pressure Recorder).</li> </ul>
Input/Outputs/Interfaces	<ul style="list-style-type: none"> <li>• Up to 3 pressures (4<sup>th</sup> pressure is virtual).</li> <li>• Up to 1 Temperature (2 future).</li> <li>• Up to 4 Digital Inputs.</li> <li>• RS232/485 port.</li> <li>• RS232 Configuration port.</li> <li>• IrDA configuration interface.</li> <li>• Magnetic switch: Wakes the unit up by swiping a magnet and forces a call.</li> </ul>
Mounting configuration	<ul style="list-style-type: none"> <li>• Wall Mount.</li> <li>• U-Bolt Mount (2", 3", 4")</li> <li>• UMB Mount.</li> <li>• Portable Mount.</li> </ul>
Warranty	4 year standard warranty.
Dimensions	378.96 mm x 178.05 mm x 424.43 mm 14.92 in x 7.01 in x 16.71 in

Certifications	<ul style="list-style-type: none"><li>• Metrological:<ul style="list-style-type: none"><li>○ Measurement Canada</li></ul></li><li>• Hazardous Locations:<ul style="list-style-type: none"><li>○ CSA C/US Class I, Division 2, Groups C and D, T3C</li><li>○ IECEx Zone 2, Group IIB, T4</li></ul></li><li>• Wireless Certification (IC &amp; FCC):<ul style="list-style-type: none"><li>○ Industry Canada: IC ICES-003*</li><li>○ FCC: Part 15 B Class-A Digital divide</li></ul></li></ul>
*The certification is in progress.	

## ACRONYMS

ACRONYMS	DEFINITION
°C	Degree Celsius
°F	Fahrenheit
ATEX	Appareils destinés à être utilisés en Atmosphères Explosives
BLE	Bluetooth® Low Energy
CCOE	Chief Controller of Explosives
CAPEX	Capital Expenditures
dBm	Decibel-Milliwatts
EMC	Electromagnetic Compatibility
EU	European Union
ETSI	European Telecommunications Standards Institute
FCC	The Federal Communications Commission
G	Acceleration (9.81 m/ s <sup>2</sup> )
hPa	Hectopascal
Hz	Hertz
in	inch
iOS	iPhone Operating System
IIoT	Industrial Internet of Things
ISED	Innovation, Science and Economic Development
IECEEx	International Electrotechnical Commission for Explosive Atmospheres
kHz	Kilohertz
km	Kilometre
kPa	Kilopascal
lb	Pound
LOS	Line of Sight
LoRaWAN®	Long Range Wide Area Network Protocol
LVD	Low Voltage Directive
MEMS	Micro-electromechanical systems
MHz	Megahertz
MNO	Mobile Network Operator
OPEX	Operating Expenses
Pa	Pascal
RED	Radio Equipment Directive
RF	Radio frequency
RSSI	Received Signal Strength Indicator
RX	Receiver
TX	Transmitter
UKCA	UK Conformity Assessed

**For more information:**

To learn more about Honeywell's Smart Gas Metering Solutions, visit <https://process.honeywell.com> or contact your Honeywell Process Solutions representative.

**Honeywell Process Solutions**

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MAKE IT**

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