



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 CloudLink R100 or CloudLink with Cat M1 radio support, and the Cat M1 5G cellular modem, i.e. CloudLink 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.
- 21Ah 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"> • CloudLink R100 : Cat 3 radio. • CloudLink R110 : Low Power Cat M1 radio. • CloudLink 5G: Cat M1, Low power transparent serial modem. • Sierra Wireless RV55 Modem.
Power Supply Options	<ul style="list-style-type: none"> • 7Ah rechargeable sealed lead-acid battery. • 21Ah Alkaline rechargeable sealed battery. • 120Vac/12-15Vdc adjustable power supply. • 10W, 20W, 30W, 40W or 90W solar panel. • Alkaline receptacle battery (backup power for Volume Corrector/ Pressure Recorder).
Input/Outputs/Interfaces	<ul style="list-style-type: none"> • Up to 3 pressures (4th pressure is virtual). • Up to 1 Temperature (2 future). • Up to 4 Digital Inputs. • RS232/485 port. • RS232 Configuration port. • IrDA configuration interface. • Magnetic switch: Wakes the unit up by swiping a magnet and forces a call.
Mounting configuration	<ul style="list-style-type: none"> • Wall Mount. • U-Bolt Mount (2", 3", 4") • UMB Mount. • Portable Mount.
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

<p>Certifications</p>	<ul style="list-style-type: none"> • Metrological: <ul style="list-style-type: none"> ○ Measurement Canada¹ • Hazardous Locations: <ul style="list-style-type: none"> ○ CSA C/US Class I, Division 2, Groups C and D, T3C ○ IECEx Ex ec [ia Ga] ic nC IIB T4 Gc • Wireless Certification (IC & FCC): <ul style="list-style-type: none"> ○ Industry Canada: IC ICES-003¹ ○ FCC: Part 15 B Class-A Digital divide
<p>¹The certification is in progress.</p>	

ACRONYMS

ACRONYMS	DEFINITION
°C	Degree Celsius
°F	Fahrenheit
ATEX	Appareils destinés à être utilisés en Atmosphères Explosives
CAPEX	Capital Expenditures
dBm	Decibel-Milliwatts
EMC	Electromagnetic Compatibility
EU	European Union
FCC	The Federal Communications Commission
G	Acceleration (9.81 m/ s ²)
hPa	Hectopascal
Hz	Hertz
in	inch
iOS	iPhone Operating System
IIoT	Industrial Internet of Things
ISED	Innovation, Science and Economic Development
IECEx	International Electrotechnical Commission for Explosive Atmospheres
kHz	Kilohertz
km	Kilometre
kPa	Kilopascal
lb	Pound
LOS	Line of Sight
MHz	Megahertz
MNO	Mobile Network Operator
OPEX	Operating Expenses
Pa	Pascal
RF	Radio frequency
RSSI	Received Signal Strength Indicator
RX	Receiver
TX	Transmitter

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

Mercury Instruments LLC
1280 Kemper Meadow Drive Cincinnati, OH 45240
Phone: +1 (855) 251-7065
<https://process.honeywell.com>

BR-18-32-US | Rev. 4 | April 2024
©2024 Honeywell International Inc.

**THE
FUTURE
IS
WHAT
WE
MAKE IT**
