

WIRELESS EXTENDER

MWT-3905-WE

- **Increases Coverage Area of Microcor® ER Wireless Transmitters**
- **WirelessHART™ 7 protocol**
- **Seamlessly Integrates with M-310 and Emerson Smart Wireless Networks**
- **International Hazardous Area Certifications**
- **Easy Setup and Installation**



The Cosasco Wireless Extender MWT-3905-WE (WE-310) offers a cost-effective way to expand mesh networks when outlying wireless devices exceed the range of the mesh formed by other nodes and the gateway. The WE integrates seamlessly with other Cosasco Wireless devices and Emerson wireless devices using WirelessHART 7 protocol, and can be setup and configured using Cosasco's Wireless Tools Software or the Checkmate DL-W Wireless

Configurator. Certification for Class I/Zone 1 hazardous locations enable users to change power modules without the need to remove the WE from the field. The power module has a typical life of three years. The typical wireless range is 300 m (1000 ft) with a clear line of sight from transmitter to transmitter, or from transmitter to gateway, with multiple "hops" permitted from the originating node to the gateway. The WE will operate in temperatures from -40°C to 70°C.

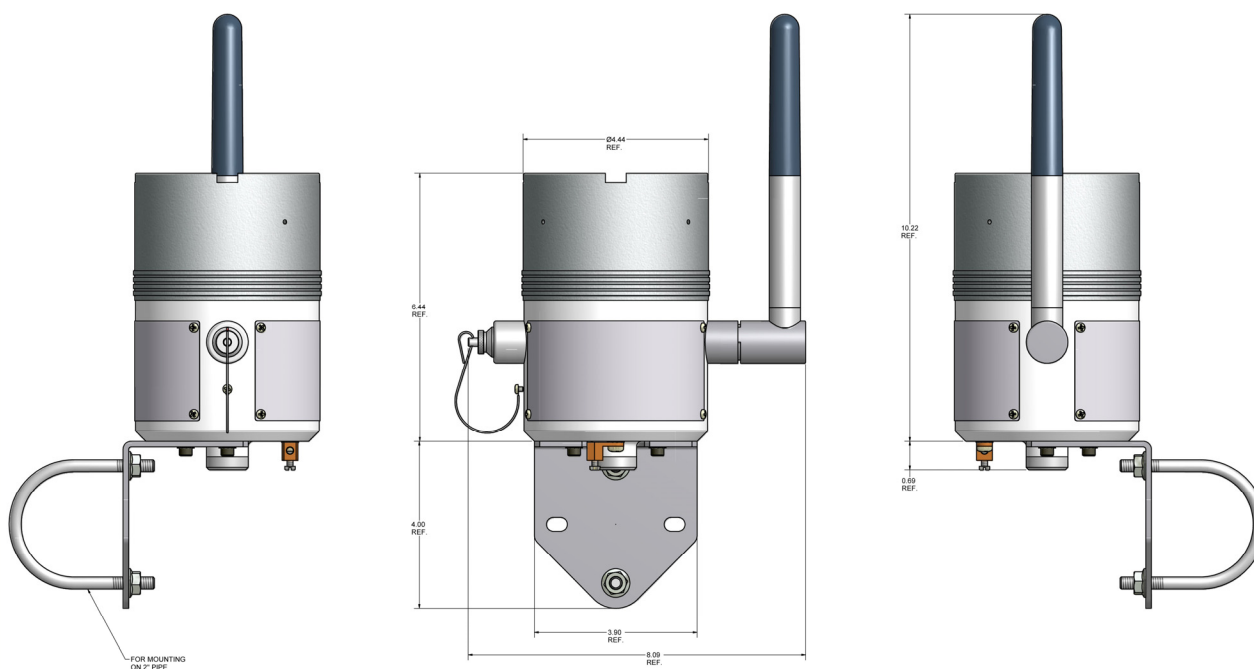
Specifications

Operating Specifications

Communication:	2.4 GHz DSSS (Direct Sequence Spread Spectrum). WirelessHART 7 Protocol
Ambient Temperature Range	-40°C to +70°C (-40°F to +158°F)
Data Transmit Rate	10 to 60 minutes
Antenna	Integrated Omni-directional Antenna Impedance: 50Ω Gain: 2dBi Maximum SWR: 2:1 Maximum radio power output: 10 mW

Physical Specifications

Enclosure	Rating: IP66 Materials: Housing – 6061-T6 ALUM Paint – Polyester Enamel over Epoxy Primer
Power supply	7.2 V Lithium Power Module Power Module life: 3 years (Typical) – Hazardous Area Location Certified. (Replacement okay in hazardous locations).
Weight	7.5 lbs (3.5 kg) with Lithium Power Module installed
Dimensions	See below
Pole or Wall Mounting	Metal Bracket (supplied) for direct wall mount and adjustable U-Bolt mounting for 2-3" pipe size vertical or horizontal pole mounting. See Below.



Wireless Extender Dimensions and Mounting Options

Physical Specifications

Telecommunication Compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the RF spectrum. Nearly every country requires this type of product certification. Cosasco is working with governmental agencies around the world to supply fully compliant products and remove the risk of violating country directives or laws governing wireless device usage. The Wireless Extender is currently certified with the governmental agencies of Angola, Azerbaijan, Australia, Brazil, Canada, China, Colombia, Ecuador, European Union, Egypt, India, Indonesia, Kazakhstan, Kuwait, Malaysia, Mexico, Oman, Qatar, Russia, Saudi Arabia, Thailand & Tobago, UAE, United States and Venezuela. Additional country approvals are in currently in progress and will be posted as soon as certification is verified. Please contact Cosasco or visit our website for the latest country certifications.

FCC and Industry Canada (IC)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions. This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.

ATEX Certification

Ex d [ib] Class I, Zone 1, IIC, T4, Ta = -40C to +70C

North American Certifications

FM AEx d [ib] Class I, Zone 1, IIC, T4, Ta = -40C to +70C

FMc Ex d [ib] Class I, Zone 1, IIC, T4, Ta = -40C to +70C

IEC Ex Certification

IEC Ex d [ib], Class I, Zone 1, IIC, T4, Ta = -40C to +70C

All certifications based on IP66 Enclosure and for use only with Power Module P/N 748400

Ordering Information

Model	Description						
MWT-3905-WE	Cosasco Wireless Extender (includes mounting bracket)						
	<table><tr><th>Code</th><th>Radio</th></tr><tr><td>0</td><td>Aluminum</td></tr><tr><td>1</td><td>Stainless Steel 316 SS</td></tr></table>	Code	Radio	0	Aluminum	1	Stainless Steel 316 SS
Code	Radio						
0	Aluminum						
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	<table><tr><th>Code</th><th>Housing</th></tr><tr><td>0</td><td>2.4 GHz Wireless HART7 - Integral Antenna</td></tr></table>	Code	Housing	0	2.4 GHz Wireless HART7 - Integral Antenna		
Code	Housing						
0	2.4 GHz Wireless HART7 - Integral Antenna						
MWT-3905-WE - 0 - 0	Typical Order Number						

Accessories

7.2 Lithium Power Module P/N 748400

Checkmate DL-W P/N Checkmate DL-W

Cosasco

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