

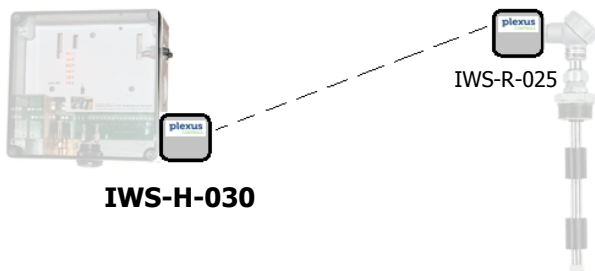
## H-030 Series Ruggedized Industrial Wireless Termination System

### Features and Benefits

- Next generation distributed, intelligent wireless SCADA system
- Terminates an IWS-R-025 system into 4-20mA or 0-3V output at existing PLC/Control Panel
- Integrated internal or external long range antenna versions
- 12V-24V powered from Control Panel
- ½" NPT Female fitting for easy mounting and connection into Control Panel
- Radio range typically up to 100m indoor and 2km outdoor



**IWS-H-030**  
(internal antenna version)



**IWS-H-030**

## DESCRIPTION

The Intelligent Wireless System (IWS) nodes comprise of a range of distributed wireless products from Plexus Controls providing advanced supervisory, control and data acquisition (SCADA) functionality for commercial and industrial applications.

With 'out the box' auto mesh wireless functionality, IWS nodes can be easily installed at a remote location and connected to standard sensors, supporting 4-20mA, 0-5V, 0-10V, HART, temperature, pressure and many other interfaces. Either through a direct wireless connection or automatically hopping through a series of repeater IWS nodes, the sensor data is relayed back to the IWS Hub for termination over Ethernet to the IWS Management Server application for display, logging and alarm management.

The Wireless Termination Unit H-030 is a integrated radio and analog output system for terminating a single remote IWS-R-025 sensor system. The H-030 system mounts on or next to an existing PLC or Control Panel through the standard ½" NPT female connector, converting back into a current or voltage signal and wires directly into the standard analog input simulating the same electrical interface into the Control Panel as the sensor output. This provides a very cost effective solution to high installation charges in commercial and industrial environments, with fast and easy installation associated with wireless but still using the customer's traditional PLC and sensor equipment.

The H-030 is powered using 12V to 24V from the Control Panel.



# Intelligent Wireless SCADA Distributed Control System

## SPECIFICATIONS

Radio Specifications	
Wireless Topology	Point to Point
Frequency	2.4 GHz ISM Band
Channels	16
Hops	30 max.
Power Output	+18dBm EIRP with internal antenna
RX Sens	-102 @ 10-6 BER
RF Data Rate	2Mb/s
Indoor Range	up to 200ft (-M version), up to 500ft (-L version)
Outdoor Range	up to 1000ft (-M version), up to 2 miles (-L version)
Power (with current loop power)	
	IWS-H-030
Supply Voltage	12V to 24V DC
Max. Power (Transmit Active)	400mW
Max. Power (Idle/Receive)	70mW
Sleep Mode	n/a
I/O	
	IWS-H-030
	1 Output: 0-20mA (IWS-H-030L Version) 0-3V (IWS-H-030V3 Version)
Security	
Data Encryption	AES 128bit
Management	
	N/A
Physical, Electrical & Environmental	
Mounting Bracket	Unit mounts on 1/2" NPT fitting. Alternate mounting holes at the back of the enclosure
Operating Temperature	-20C to +55C
Relative Humidity	0-100% (non condensing)
Wireless Certifications	802.15.4 (2.4GHz) FCC &, IC
Enclosure	Polycarbonate (grey) 3-1/4" (w) x 3-1/4" (h) x 2" (d) (85mm x 85mm x 50mm) NEMA 4X (UV protected)
Weight	1 lb (0.5kg) (approx)



# Intelligent Wireless SCADA Distributed Control System

## ORDERING INFORMATION

<b>Part Number</b>	<b>Description</b>
IWS-H-030L-M	Wireless Termination System, 12V-24V DC Power 0-20mA Output Internal antenna
IWS-H-030L-L	Wireless Termination System, 12V-24V DC Power 0-20mA Output External omni-directional antenna
IWS-H-030V3-M	Wireless Termination System, 12V-24V DC Power 0-3V Output Internal antenna
IWS-H-030V3-L	Wireless Termination System, 12V-24V DC Power 0-3V Output External omni-directional antenna



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To find out more, contact Plexus Controls:

Tel: 1-613-963-0751

Email: [info@plexus-controls.com](mailto:info@plexus-controls.com)

[www.plexus-controls.com](http://www.plexus-controls.com)