IWR-PORT SERIES

WIRELESS TO ETHERNET OR RS-232/485 GATEWAY

The IWR-PORT Ethernet Gateway provides a link between wireless sensors and sensor networks and Industrial Ethernet or RS-232/485 networks.

This allows Sensata wireless transmitters to be incorporated into new or existing Industrial Ethernet or RS-232/485 data monitoring and control networks.

The IWR-PORT can interface with standard 10/100Base-T Ethernet networks giving access to the standard MODBUS TCP protocol, ensuring compatibility with most industrial automation systems.
MODBUS RTU is available when an RS-232/485 network is used.

Features

- 2.4GHz Wireless to Comms Gateway
- Enables easy add-on of wireless networks to existing Ethernet or RS-232/485 systems
- Allows remote sensors to be incorporated into an Ethernet or RS-232/485 network without the need for expensive cabling
- Optional analog & digital outputs can be obtained using SC-ISOSLICE modules

Ethernet TCP/IP or RS-232/485 Communications

Multiple battery powered sensors transmit data at programmable intervals to an IWR-PORT receiver which can transfer the data onto an Ethernet or RS-232/485 network.
Data from up to 128 nodes can be stored on one IWR-PORT module and up to 16 networks can co-exist together. All parameters are stored as Modbus registers.

Installation Detail

Mounting	DIN Rail TS35
Orientation	Any
Connections	Screw clamp with pressure plate
Conductor Size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 120g

SPECIFICATIONS

Parameter	Min	Typ	Max	Comments
Supply Voltage	16	24V	30	
Supply Current (mA)	100		120	24Vdc supply
Ethernet Interface				10Base-T or 100Base-T
Connector		RJ45		
Protocols				For Ethernet version Modbus TCP/IP or RTU
Rs232 Data Rate	2400	38400	57600	Baud
Date bits		7 or 8		
Parity				Odd / Even / None
Isolation Voltage	1kV			
Operating Ambient	0ºC		55ºC	
Relative Humidity	0%		90%	
Surge Voltage	2.5kV for 50µS		Transient of 10kV/µS	

Notes: Local LED display can show sensor values in real engineering units and IWR-PORT set-up information
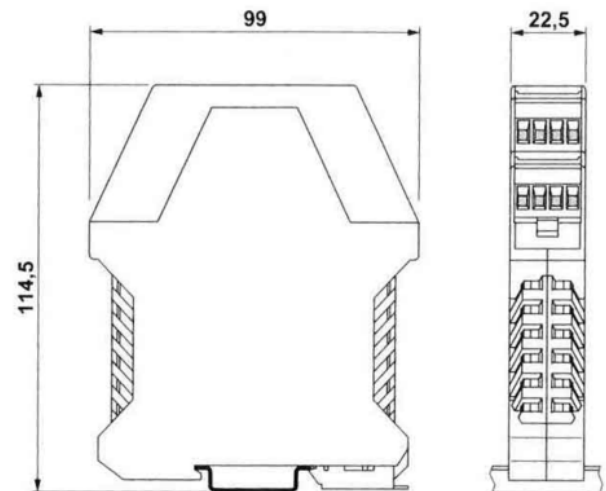
Connection Details

1. 0V
2. 16-36 V dc / 16-32 V ac
7. Ground
8. RS-232 Transmit or RS-485 B -ve
9. RS-232 Receive or RS-485 B +ve

ORDERING OPTIONS

Part Number	Description
IWR-PORT-E	Ethernet
IWR-PORT-232	RS-232
IWR-PORT-485	RS-485

DIMENSIONS

All dimensions are in millimeters

Made in the UK