Sensata Technologies

| IWR-PORT SERIES INDUSTRIAL WIRELESS GATEWAY

The IWR-PORT Gateway provides a link between wireless sensors networks and Industrial Ethernet or RS-232/485 networks. It aggregates real-time sensor data from disparate sources and communicates to other operational technology control systems, making it an important part of a dedicated wireless system that aids in the 24/7 monitoring of critical assets by seamlessly integrating into the control architecture. It enables a smart factory or digital transformation approach by integrating sensors and controls that produce new business insights.

PROTECTS DATA WITH A SECURE NETWORK

Confidently maintains data security with end-to-end encryption.

BUILT FOR USE IN HARD TO MAINTAIN LOCATIONS

Provides clear, reliable transmission of data in environments with obstructions.

SCALABLE ENOUGH TO DEPLOY FROM ONE MACHINE TO AN ENTIRE INDUSTRIAL SPACE

Scales from one-to-many sensors using 16 network designations without additional solution cost.

ADAPTIVE TO EXISTING OT SYSTEMS IN INDUSTRIAL APPLICATIONS

Works seamlessly in any OT architecture and safely aggregates wireless sensor data and makes it available to local control systems or other software programs.

INCLUDES WIRELESS TRANSMITTER VISUALIZATION FOR FASTER SETUP

Simplifies system commissioning by visualizing sensor data, wireless signal strength, and time of last transmission.

INTEGRATES SEEMLESSLY TO THIRD PARTY SYSTEMS

Saves engineering development time by utilizing standard and known communication protocols including 10BASE-T Ethernet via MODBUS® TCP protocol or MODBUS RTU when an RS232/485 network is used. These protocols ensure compatibility with most industrial automation systems.

POWERED THROUGH LOW VOLTAGE FOR LOWER INSTALLATION COSTS

Easily fits inside your enclosure and efficiently sips just enough energy to perform its tasks.

EXPANDS WIRED SYSTEMS TO A NETWORK FOR SCALING IOT CONNECTIVITY ACROSS AN ENTERPRISE

Encompasses additional value by enabling local circuit options like wired inputs from sensing types including voltage, current, thermocouple, RTD, frequency, and 4-20 mA devices.

APPLICATIONS

- Smart Factory
- Manufacturing
- Aerospace
- Automotive
- Electronics
- Food & Beverage
- Machine Tool
- Packaging
- Pharmaceutical
- Semiconductor
- Steel

SPECIFICATIONS

Parameter	Min	Typ	Max	Comments
Supply Voltage	16	24V	30	
Supply Current (mA)	100		120	24 V dc 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. 0 V
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 A +ve

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

ORDERING OPTIONS

Part Number	Communications Format
IWR-PORT-E	Ethernet
IWR-PORT-232	With Ethernet female SMA connector & 5dBi RS-232
IWR-PORT-485	RS-485

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