

| IWT-128

WIRELESS CABLE REPLACEMENT SYSTEM



Outputs

DC Current and Voltage

0-20 mA, 4-20 mA, 0-10 mA into 750 Ω

0-1V, 0-10V, 1-5V into a minimum 2k Ω

Digital Relay Contacts

The IWT-128 unit allows almost any number of analogue or digital input values to be wirelessly transmitted to a remote receiver with either analogue 4-20 mA, 0-10V, digital or an Ethernet or RS-232/485 comms port.

The transmitter unit can be expanded through the use of the optional slice I/O modules.

These modules connect automatically via the DIN rail mounted bus connector allowing the easy addition and removal of extra I/O.

The built-in display allows local monitoring of the individual inputs and outputs, a useful commissioning and operations tool.

The IWT-128 has typically two uses:

1. To transmit a single variable to a receiver unit which outputs a 4-20 mA or 0-10V signal corresponding to the input.
2. To transmit multiple input values to a IWR-PORT receiver unit which provides either multiple 4-20 mA or 0-10V outputs or a single Ethernet or RS-485 connection. The transmitter and receiver units are identical units factory configured for either function.

Features

- Transmits up to 128 channels through a wireless link
- Simple cable replacement system
- Local indication of Input values
- Expand the number of inputs through the use of IsoSlice I/O Modules
- IWR-PORT receiver connects to IsoSlice units or outputs an Ethernet/RS-232/485 connection with a local display

Inputs

The input types and ranges included below are our standard ones only. Contact Sensata for others.

DC Current & Voltage

0-20 mA, 4-20 mA, 0-10 mA into 15/30Ω

0-1V, 0-10V, 1-5V into 100kΩ / 1MΩ

0-25mV, 0-100mV, 0-500mV into >10MΩ

Min & Max Full Scale Ranges are:

DC Current	0 - 1mA	0 - 5A
Bipolar DC Current	±5mA	±10mA
DC Voltage	0-25mV	0 - 300V*
Bipolar DC Voltage	±5V	±10V
2 Wire Pot	0 - 125Ω	0 - 1kΩ
3 Wire Pot	0 - 1kΩ	0 - 100kΩ

*For input voltages greater than 60Vdc a Divider unit must be specified.

SPECIFICATIONS

Technical

Parameter	Min	Typ	Max	Comments
Supply Voltage	16	24V	30	
Supply Current (mA)	65		120	24Vdc supply
Input Impedance (Volt)		1MΩ		
Input Impedance (mA)		15Ω		
Volt Drop (mA input)		0.3		At 20mA input
Output Linearity Error		±0.01%	±0.05%	
Temp Coefficient			±100ppm/°C	
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage*	1kV			
Surge Voltage	2.5kV for 50µs		Transient of 10kV / µs	

Notes: The process input level is shown on the 4 digit LED display. Figures based on 24 Vdc supply 20°C ambient.

Installation Data

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

Thermocouples

Types E, J, K, N, R, S, T, B linearised or non-linearised

Ranges: Wide range of inputs

Cold junction compensation (can be turned off)

Upscale or downscale t/c burnout options.

Resistance Thermometers

2, 3 or 4 wire PT100 or PT1000, linearised or non-linearised

Ranges: Wide range of inputs

Upscale or downscale RTD burnout options.

Frequency or Digital Inputs

Wide range of freq inputs to 250 kHz. Specify -FREQ

Additional I/O

Extra analogue and digital inputs and outputs are available through the ISOSLICE slice I/O modules.

Connection Details

1. Power Input -ve
2. Power Input +ve



ORDERING OPTIONS

Example : IWT-128

Please supply

Part Number: IWT-128

Power Supply: 24Vdc

Options: Extra I/O available through ISO-SLICE modules
Ethernet or RS-232/485 comms port

Configuration Software*: IWR-Port

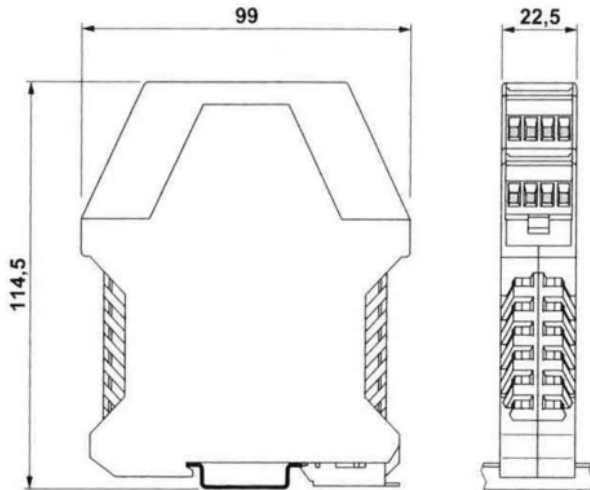
*Download free user configuration software here:

https://www.cynergy3.com/sites/default/files/IWR-Port_Config_v1.0_installer.zip



DIMENSIONS

All dimensions are in millimeters



Made in the UK

Page 3

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

EUROPE
+44 (0)1202 897969
c3w_sales@sensata.com
Cynergy3 Components Ltd.
7 Cobham Road,
Ferndown Industrial Estate,
Wimborne, Dorset,
BH21 7PE, United Kingdom

USA
+1 310 561 8092 / +1 866 258 5057
c3w_sales@sensata.com