

## IWmAT SERIES

### INDUSTRIAL WIRELESS 4-20 mA TRANSMITTER



#### Typical Applications Include

- Simple cable replacement installation
  - dispense with expensive and tortuous cable runs
- Analog Sensor Status
  - transmit 4-20 mA sensor outputs to a remote receiver

#### SPECIFICATIONS

##### Transmitter Output

<b>*Transmission Frequency</b>	2.4 Ghz using ISM bands
<b>Transmit Power</b>	18 dBm
<b>System Channel</b>	User selectable via DIL switch
<b>Antenna</b>	Integral 0dBi

\*Compliant with EN 300 328, V1.8.1

##### Material Specifications

<b>Wireless Enclosure Material</b>	Plastic
<b>Weight</b>	150g including battery
<b>*Installation position</b>	Any
<b>Environmental protection</b>	Designed to IP68 (not recommended for submersion due to signal loss)

\*Consult installation manual to ensure adequate signal path between transmitter and receiver

The IWmAT Wireless Transmitter is a cost effective alternative to traditional wiring that offers the advantages of a low-cost installation in inaccessible and expensive installation environments.

It is easily paired to any of the range of IWR receivers - thus offering a "plug and play" solution to your 4-20 mA current application.

The IWmAT sensor should be used with any of the IWR range of receivers. A line-of-sight range of up to 500 m is possible depending on the wireless receiver used (refer to specific receiver datasheets for further information).

#### Features

- 4-20 mA wireless transmission
- Up to 500 m line-of-site range (depending on receiver)
- Five-year battery life at 10 second transmission update rate
- Simple DIL switch pairing with the single or five channel receiver
- User-selectable transmission update rates
- A range of receivers are available
- Receiver clean contacts provide process alarm functions

##### Instrument Power Source

<b>Battery Type</b>	User replaceable Lithium C cell
<b>Battery Life</b>	Five years at 10 second update rate
<b>Battery Shelf Life</b>	10 years

##### Temperatures

<b>Ambient Temperature range</b>	-20°C to +50°C
<b>Storage Temperature</b>	-20°C to +80°C

## Input/Output Signals

<b>Input (transmitter)</b>	4-20 mA (passive)
<b>Receiver Part Number Receiver Outputs</b>	
<b>IoT Gateway</b>	Built-in cellular modem allows all data to be sent to remote servers
<b>IWR-PORT</b>	RS-232 or RS-485 or Ethernet MODBUS Communications. Up to 128 off analog 4-20 mA or Relay outputs can be obtained by fitting extra ISOSLICE I/O modules
<b>IWR-USB</b>	Displays & Logs data on any PC running IWR-USB software
<b>IWR-5</b>	5 off 4-20 mA or 1-5 V dc and 1 Relay output
<b>IWR-1</b>	1 off 4-20 mA and 1-5 V dc and 1 Relay output

\*\*\*Transmission Update Rate 1, 5, 10 and 30 seconds

\*\*\* Consult installation manual for set-up:

- single channel system is DIL switch configurable
- five channel system requires set-up using "IWR Set" user software

## ORDERING OPTIONS

<b>Wireless transmitter</b>	IWMAT-00
<b>Spare battery</b>	IBAT-1
<b>Receivers</b>	See IoT Gateway, IWR-PORT, IWR-USB, IWR-5 and IWR-1 data sheets
<b>Five Channel Configuration Software</b>	IWR-Set (free download*)

## DIMENSIONS

All dimensions are in millimeters

