

IWDigT SERIES

INDUSTRIAL WIRELESS DIGITAL TRANSMITTER



Typical Applications Include

- Simple cable replacement installation
 - dispense with expensive and tortuous cable runs
- Process Doors and Machine Access Points
 - monitor open/closed status
- Water, Gas, Electricity Meters
 - ingest a pulse counter input and transmit

SPECIFICATIONS

Transmitter Output

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

*Compliant with EN 300 328, V1.8.1

Material Specifications

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

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

The IWDigT 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 digital switched or pulse counter application.

The IWDigT 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

- Wireless transmission of single digital signal
- 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 receivers
- A range of receivers are available
- User-selectable transmission update rates
- Receiver clean contacts provide process alarm functions

Instrument Power Source

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

Temperatures

Ambient Temperature range	-20°C to +50°C
Storage Temperature	-20°C to +80°C

Input/Output Signals

Input (transmitter)	1 x volt free contacts
Receiver Part Number Receiver Outputs	
IoT Gateway	Pairs with up to 128 wireless transmitters. Sends data via MQTT to on-premises servers or the cloud using the built-in 2G/3G or 4G modem. 8 Digital Inputs, 4 relay outputs.
IWR-PORT	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
IWR-USB	Displays & Logs data on any PC running IWR-USB software
IWR-5	5 off 4-20 mA or 1-5 V dc and 1 Relay output
IWR-1	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

Wireless transmitter	Switched version = IWDIGT-S-00 Pulsed version = IWDIGT-P-00
Spare battery	IBAT-1
Receivers	See IWR-1, IWR-5, IWR-PORT, IoT Gateway and IWR-USB data sheets
Five Channel Configuration Software	IWR-Set (free download*)

DIMENSIONS

All dimensions are in millimeters

