

Output node (P2P-O)

Analogue Outputs

2x Analogue outputs Isolated 4–20mA or 20–4mA DC

Power supply Loop powered

Resolution 15 bits, 16000 steps

Loop drop 10V max

Linearity & repeatability 0.1% FSO max

Accuracy 0.1% FSO max

Ambient drift 50ppm/°C FSO max

Isolation to Digital IO GND 1400Vrms for 1min. Working voltage 125V DC

Digital IO's

4x Digital inputs Max rate 1Hz. Selectable sink/source. Suitable for clean contacts, NPN, PNP and voltage inputs (low input <1.4V DC, high input 1.4–30V DC)

Max continuous input 20V DC

Not isolated to power supply common

2x Digital outputs Open drain (1A, 30V DC max)

Relay Outputs

2x Relay outputs Form A relays

(5A 250V AC / 5A 30V DC)

Isolation to sensor and user input commons 2300Vrms for 1min. Working voltage 250V AC

Life expectancy 100K cycles min at full load rating



Kill the cost of cabling

Twin Link Point to Point
Paired I/O units



New Zealand

www.defineinstruments.com

P +64 9 835 1550

F +64 9 835 1250

E sales@defineinstruments.com



South Africa

www.defineinstruments.co.za

P 087 945 2700

M 079 785 8119

E sales@defineinstruments.co.za

Transmit data up to 1.5km

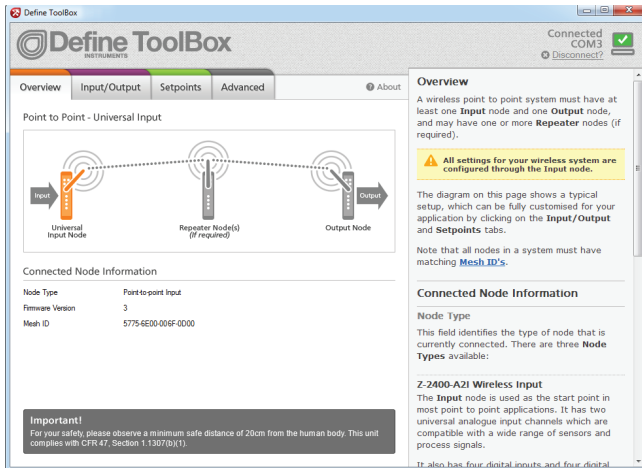
When it's just too far or too expensive to lay cable for signal communications, turn to Define Instruments Twin Link units.

Twin Link's powerful control and communication capabilities means **you get the data you need to the place you need it** – without the hassles.

Twin Link I/O units transmit data up to 1.5km with line of sight (LOS). If your line of sight is obscured or you need to reach further, just add a repeater unit.

Simple setup via your PC in just minutes

Setup is fast and easy. Connect your PC to the Twin Link units via USB [Bridge Key required] and using our Toolbox software you'll be able to **configure them in just a few minutes**.

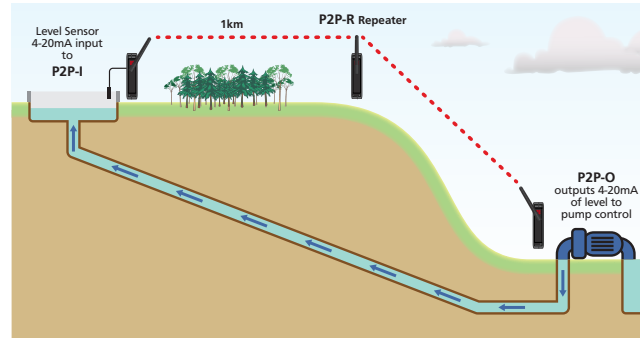


Fast, simple setup: Using your PC and the Toolbox software, you'll be up and running in no time.

“Out of the box” ready for 4-20mA I/O applications

For your convenience, Twin Link units come pre-paired and ready to use for the most common applications.

Real world application



A wireless link is required between a reservoir and a pump station. There is no line of sight between them and there are significant obstacles in the way.

To achieve a successful link 3 devices are required: the Twin Link I/O pair plus a repeater.

The P2P-I unit measures the 4-20mA output signal from the reservoir level sensor. This signal is converted to a digital message and transmitted to the repeater.

The repeater forwards this digital message to the P2P-O unit. It reconstructs the signal into a 4-20mA output that is wired to an existing pump controller.

It is also possible to reduce costs by programming the input device as a controller to control the pump directly, removing the need for a separate pump controller.

Digital inputs and outputs are transparently transmitted so output relay states are automatically routed to the output devices relays.

General specifications

Power supply 9–36V DC, 2.5VA max

Isolation 1500V AC between power supply and input or output channels

RF frequency range 2405-2475MHz

Transmission range Up to 1.5km LOS with supplied antenna (WG-3DBI). All nodes must be set to full power [+20dBm] for max range.

Input node (P2P-I)

Inputs

2x Universal inputs Thermocouple, RTD (Pt100/Pt1000), 0/4-20mA, Voltage (various ranges from -200mV to 18V), Digital pulse (NPN/PNP, 0-2.5kHz), Potentiometer or AC current sensor input

Digital IO's

4x Digital inputs Max rate 1Hz. Selectable sink/source. Suitable for clean contacts, NPN, PNP and voltage inputs (low input <1.4V DC, high input 1.4–30V DC)

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