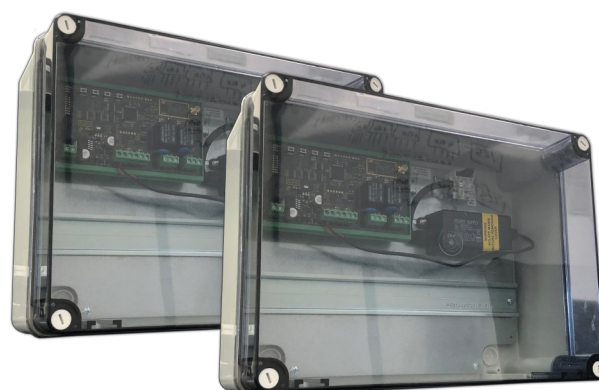




16km Range LoRa Telemetry Radio System

Features:

- Ready to Use Telemetry Control
- 2 Channels with feedback
- 1km and 16km Versions
- Supply: 12-32Vdc/ac or 110-230Vac
- Transmitter: No Volt inputs
- Receiver: Changeover Relay Contacts 5A@230Vac
- Signal Strength Display
- IP65 Rated Enclosure with Integrated Rugged PUK Antenna
- 868 / 915MHz Versions
- CE Compliant



Applications

- Industrial Telemetry
- General Purpose Remote Control and Monitoring
- Quarry remote Switching
- Access Control
- M2M Switching
- Quarry / Stadium / Factory

Part Number	Description	Range** (Metres)	Freq (MHz)	Relay Outputs (each @230Vac)
PRO-LORAT1-8S2	2 channel Remote Control System	1,000	869.5	2 x 10A
PRO-LORAT1-8S10	10 channel Remote Control System	1,000	869.5	10 x 10A
PRO-LORAT16-8S2	2 channel Remote Control System	16,000	869.5	2 x 10A
PRO-LORAT16-8S10	2 channel Remote Control System	16,000	869.5	10 x 10A

** Range stated is optimum, direct line of sight. In worst conditions this can be reduced by up to 50%.

Connecting the Inputs and Outputs

The PRO-LORA system is supplied paired and ready to operate. If you require further details on pairing or erasing the system please see our 725 Series Datasheet.

Transmitter input 1 is paired to Receiver Output 1

Transmitter input 2 is paired to Receiver Output 2

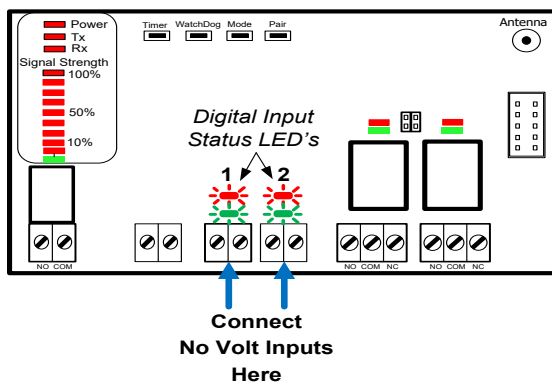
Activation of each input will cause the receiver output to activate.

All that is required to operate is to connect power, Inputs, Outputs and fix to the wall.

Connect the Transmitter Inputs

Digital INPUT Status LED's

Each Transmitter input LED displays the status of the input and the status at the Receiver output.

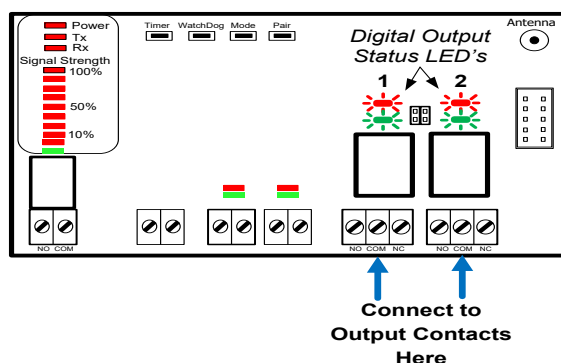


LED	Description
RED/GRN Alternating	Input is not paired with any output
GREEN LED Status of Input	
ON	Input Active / ON
OFF	Input Inactive / OFF
RED LED Feedback from Receiver	
ON	After Power is applied and before transmitting any signal
OFF	Ack signal successfully received
Flashing	Failed to received the ack signal (out of Range)

Connect the Receiver Outputs

OUTPUTs Status LEDs

The status of active relays is displayed on each output LED.



LED	Description
RED/GRN Alternating	Output is not paired with any input
GREEN LED Status of Output	
ON	Relay is Active / ON
OFF	Relay is Inactive / OFF
RED LED Feedback from Receiver	
Flashing	Ready to pair

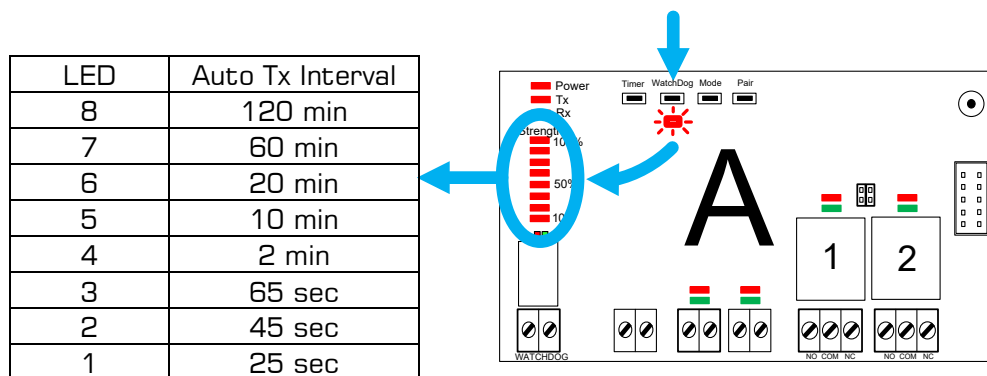
Additional Features

This system has several 'optional' features. These are summarised below.

Additional Modules: Additional Input / Output modules or can be connected (max 16 of each).

Transmitting a Watchdog Signal

When enabled the 725TRX automatically transmits an intermittent 'Watchdog' signal according to the AUTO TX Interval Table. The Receiving 725TRX holds the Watchdog Relay ON as long as a signal is received.

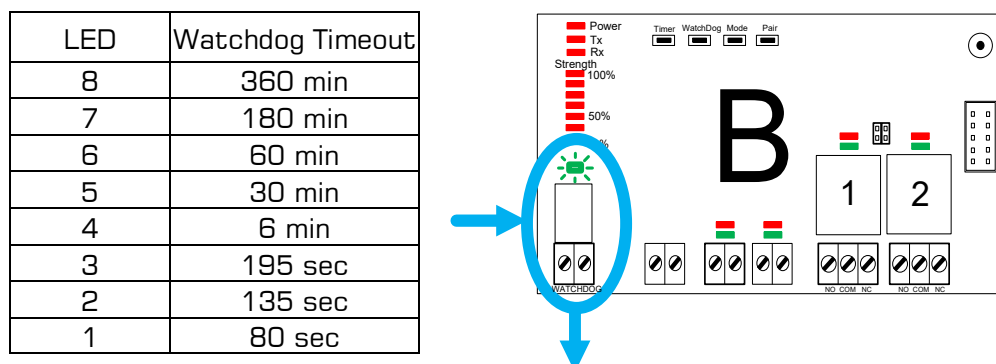


Receiving a Watchdog Signal

The paired 725TRX Receiver will hold its Watchdog Relay contacts ON as long as a AUTO TX signal is received.

If an AUTOTX signal is not received within the Watchdog Timeout period then the Watchdog relay will drop out.

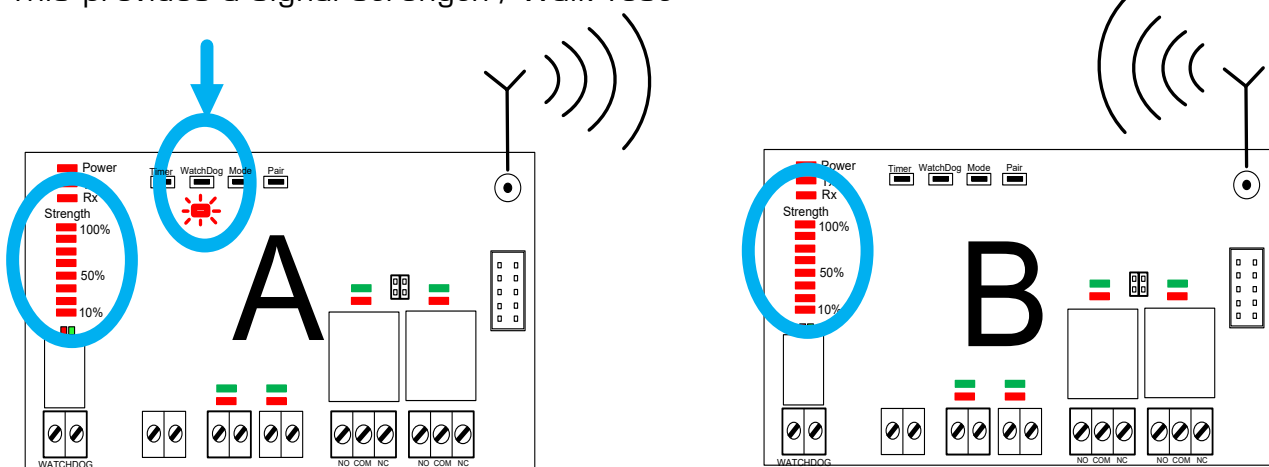
Note: We recommend setting the receiving Timeout at least 3 x Transmitter Auto TX interval



Note: The 725-TRX will need to be paired in both directions for both watchdog relays to operate. A 725-TRX can only receive a watchdog signal when paired as a receiver.

Display Signal Strength

This provides a signal strength / Walk Test



Any PRO-LORA will display a received signal on the signal Strength LED bar graph from a compatible transmitter.

1. Press and hold the WatchDog button on the Transmitter for 5 seconds.
2. PRO-LORA emits a special transmission every second,
3. Any PRO-LORA will display the received Beacon on the signal strength LED bar graph.
4. An acknowledge will be sent back to the originating PRO-LORA from any paired PRO-LORA which will also display on its signal Strength LED bar graph.
5. When activated on a paired transmitter, LEDs 1-8 on both devices will show signal strength .

NOTE: For reliable communications please ensure at least 3 LED's are lit in this test.

Pro Series Remote Telemetry



Technical Specifications

Transceiver : 725TRX
Dimensions: 315 x 235 x 130mm
Operating Temperature: -10 to +50° Celsius.

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage AC	110		240	V
DC	12		32	dc or ac
Frequency:		869.500 915		MHz
RF Output Power (ERP) @ 869.50 MHz	-	100		mW
Supply Current : Quiescent		50		mA
All output relays operating		+101		mA
Watchdog relay operating		+25		mA
When transmitting		+95		mA

Enclosure:

DIN Rails mounted on steel plate
Integrated 12Vdc moulded Power Supply with 5 Amp Fused terminal block
Material GW PLAST 120 °C
PUK antenna

Kit includes:

Transmitter

1x 725-TRX Transceiver DIN Rail module
1x PUK antenna and ground plate
2x fascia hinges
2x Glands
1x 12V 1A 230VAC power supply

Receiver

1x 725-TRX Transceiver DIN Rail Module
1x PUK antenna and ground plate
2x fascia hinges
2x Glands
1x 12V 1A 230VAC power supply

Pro Series Remote Telemetry



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