

TelePulse

Analogue

wireless signal transfer system

Introduction

The Microtrol TelePulse system places those awkwardly situated signals just where you need them. Using wireless technology, TelePulse regenerates your analogue signals a few hundred metres from their source. No need for long cable runs or civil engineering work. A single pair of units will transmit four analogue signals up to 350 metres. Multiple systems can be used in the same vicinity and the range can be extended by the use of repeaters. Whether its building to building, across roads and car parks or to and from continuously moving machinery, TelePulse is the answer.



The Principle

Input modules accept analogue signals and monitor them for state changes. At a pre-defined level change, the new signal levels are transmitted to the required output module. The system may also be configured to force send the values on a pre-set time interval, if required.

The transmitted signal can be sent either directly to the destination unit, or via up to 4 intermediate units. This is useful for both extending the range and transmitting around obstacles.

Any input channel can be transmitted to any of the available, suitable output channels in a TelePulse network.

The Facts

- Save time and money on cabling and installation
- Easy to install
- No planning regulations
- Remote aerial module allows optimum placement for radio transmission and reception
- Re-configurable via radio link
- Very convenient for both long and short-term monitoring applications

microtrol

Specifications

Product Features

Wireless system utilising the 434Mhz licence exempt radio band to transfer analogue signal levels.

- Range up to 350 metres in one 'hop'
- Extend range by 'hopping' between units or dedicated repeater modules
- Small footprint, din-rail mount enclosure
- Compact, IP65 rated, remotely mounted aerials
- Individually configurable signals
- Configurable via PC using data cable or radio link
- 'Confidence' output to indicate recent good communication

Input Module

- 4 12-bit channels
- Inputs can be either 0 - 2V, 0 - 20mA or Thermistor
- Selectable scan rate and transmit threshold
- Linear inputs may be scaled in engineering units

Output Module

- 4 12-bit channels
- Output range : 0 - 4V DC
- Outputs may be scaled from engineering units

Available Modules

- 4 channel analogue input
- 4 channel analogue output
- Active aerial
- Repeater
- Aerial concentrator
- Wireless configuration unit

Configurable Parameters

- Group Number 1 - 99
- Address 1 - 199
- Comms Timeout 0.2 - 2.5sec
- Forced Send Interval 0 - 2500sec
- Number of Retries 1 - 9
- Transmission Path Max. 5 'hops'
- Action Level 0.1 - 5.0%
- Action Scan Rate 0 - 25sec
- Confidence Timeout 60 - 2500sec

Active Aerial

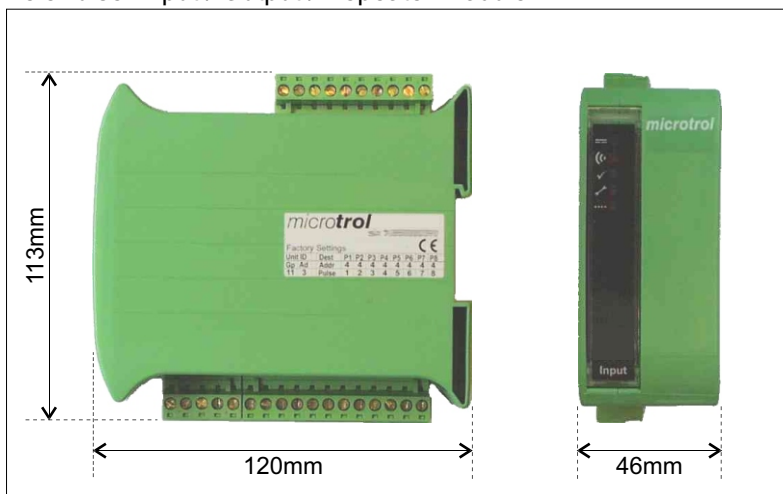
- IP65 rated enclosure
- Self sealing cable entry
- Can be mounted up to 25 metres from a TelePulse module
- One aerial can be shared by up to 4 TelePulse modules using an 'Aerial Concentrator'

Electrical Information

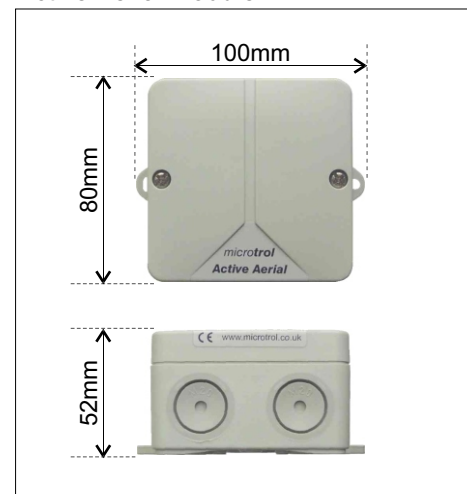
- Power Supply 8-20V DC
- Consumption Max. 0.5VA @ 12V
- Output current 5mA
- Tx Power 10mW

Dimensions

TelePulse Input / Output / Repeater Module



Active Aerial Module



Note: Due to our policy of continuous development, all features and specifications are subject to change without notice.

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