

TelePulse

wireless pulse transfer system

Introduction

The Microtrol TelePulse system places those awkwardly situated pulses just where you need them. Using wireless technology, TelePulse regenerates your pulses, without loss, a few hundred metres from their source. No need for long cable runs or civil engineering work. A single pair of units will transmit eight sets of pulses 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 count pulse signals as they are detected. At the end of a user selectable time period, and providing the pulse count has changed, the new count is transmitted to the required output module. Pulses are then output at a specified rate on the relevant output channel.

The transmitted message 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 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 pulse signals.

- 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 pulse signals
- Configurable via PC using data cable or radio link
- 'Confidence' output to indicate recent good communication

Input Module

- 8 channels
- Inputs can be either volt free contacts or a 5-24V DC PLC signal
- Selectable debounce

Output Module

- 8 channels
- Outputs can be either NPN common switching or PNP external voltage
- Selectable pulse output width

Configurable Parameters

- Group Number 1 - 99
- Address 1 - 199
- Comms Timeout 0.2 - 2.5sec
- Send Interval 1 - 250sec
- Forced Send Interval 0 - 2500sec
- Number of Retries 1 - 9
- Transmission Path Max. 5 'hops'
- Pulse Debounce (Input only) 0 - 2.5sec
- Pulse Width (Output only) 10 - 1250msec
- 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

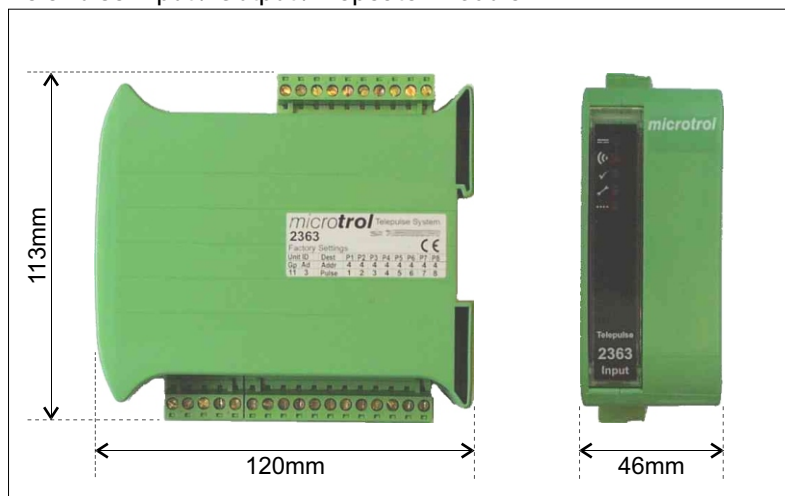
- Power Supply 8-20V DC
- Consumption Max. 0.5VA @ 12V
- Output rating 24V DC max external switching
- Tx Power 10mW

Available Modules

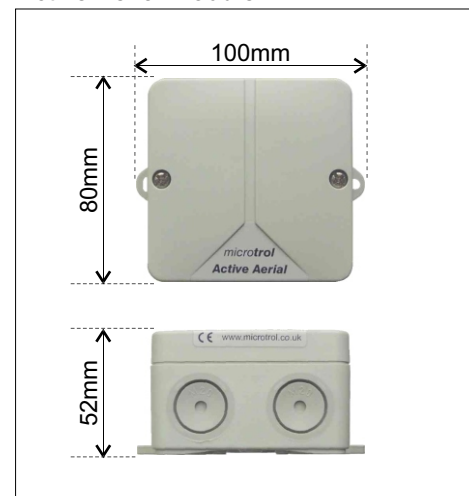
- 8 channel input
- 8 channel output
- Active aerial
- Repeater
- Aerial concentrator
- Wireless configuration unit

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.

Microtrol Ltd, 16 Elgar Business Centre, Moseley Road, Hallow, Worcester, WR2 6NJ
Tel: +44 (0) 1905 641910 Fax: +44 (0) 1905 641990
email: info@microtrol.co.uk website: <http://www.microtrol.co.uk>

microtrol