

# MiniWire



The CDL MiniWire is a long range wireless transparent serial data telemetry system. The product complies with MPT1329 for licence-free operation within the UK.

All system housings are machined from solid aluminium and hard anodised for protection. Both RF and control units are 'O' ring sealed against water ingress.

The MiniWire system is unique in allowing 'on-air' data transmission speeds of up to 16,000bps. Even with Forward Error Correction (FEC) switched on the device can still transmit a steady data stream at 9600bps.

The MiniWire system is extremely flexible. The RF heads can be used without controllers allowing single channel, transparent data transmission. Alternatively the units can be controlled by the MiniWire CDU (Control Display Unit). A master/slave network can be configured with software addressing, permitting one master unit to communicate individually with a number of slave units.

An optional multi-channel facility is available which allows up to 4 data channels to use the MiniWire data stream simultaneously. An optional real time data compression module can be fitted. For ASCII data streams the compression is often better than 200%. This can allow the MiniWire to transmit a full 38kbps data stream.



## Features:

- Up to 20km range
- Type approved (UK)
- Low cost
- 15 RF channels
- Selectable address
- Fwd Error Correction
- DC operation
- Master/Slave network

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## Product Specification:

### Transmitter

RF power.....500mW

Frequency range.....458.50 MHz - 458.95 MHz

Channel spacing .....10,12.5,20 or 25 kHz

Range.....Up to 20 km (line of sight)

Bit rate.....10 kbps or 5 kps

Modulation.....GMSK

Interface baud rate.....1,200 - 19,200 baud, adjustable

Parity .....none

Data buffer.....4 kbytes

Stop bits .....1

Data bits.....8

Operating temperature ..... -10 to +55°C

Operating humidity.....20% to 75% RH

Power supply.....8.5 - 14 Vdc (12 Vdc nominal)

Supply current.....Tx 330 mA (500mW)  
Rx 80 mA

TRx module dimensions.....172mm x 72mm x 40mm (6.8" x 2.9" x 1.6")

TRx module weight..... 0.74 kg (1lb 10oz)

Meets MPT1329, Licence Exempt Specification

CDL - Silverfield House - Claymore Drive  
Aberdeen AB23 8GD - Scotland - UK  
Tel: +44(0)1224 706655 - Fax: +44(0)1224 709840

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