



PARROT

SYSTEM PAR 4-20 mA



The Parrot International PAR 4-20 mA is a “one to one” wireless cable replacement system consisting of a paired transmitter and receiver.

Any 4-20mA signal in will give the same 4-20mA signal out. It is designed to remove the requirement of installing expensive cable and cable containment.

The transmitter and receiver are designed to fit on a standard DIN rail.

The Modules are based on the Texas Instruments CC430F5137 System-on-Chip device to provide an intelligent radio sub-system that combines a high performance RF transceiver, RF band pass filters (BPF), an MSP430 microcontroller, 32Kb flash memory, non-volatile flash storage, temperature sensor, and a low drop voltage regulator. 10 bit resolution giving better than 0.5% accuracy.

The system operates on the International licence exempt Industrial, Scientific and Medical (ISM) radio bands.

System has a 500 metre range and low power operation. Range can be extended to 10,000 metres with external antennas.

FEATURES

- Clips onto standard DIN rail
- Monitored for power and Tx/Rx failure
- Easy view LEDs for operational status
- Tx 4-20mA is loop powered, isolated and non-polarised.
- AES 120 bit data encryption
- Modules require a nominal 24vDC supply (+/- 10%)
- Modules are “colour coded” for easy identification
- SMA connection for external antenna



MODULES

- Dispatched as a paired set of modules (transmitter and receiver)
- 4-20 pairs are calibrated and ready to use



CERTIFICATION

- ISM Frequency Bands 433 & 868MHz (UK & Europe) & 915MHz (USA)
- Radio Compliance: ETSI RED (Europe)
- FCC Certified (USA) & IC (Canada) requirements
- UKCA compliant
- CE marked
- RoHS compliant
- Power Supply

