



PARROT SYSTEM PAR RS485



The Marchwood PAR 485 is a “many to one” wireless cable replacement system consisting of 4-20 mA transmitters and one RS485 receiver.

Typically 25 4-20mA transmitters can connect to one RS485 receiver.

The RS485 MODBUS output is ready to connect to any DCS, BMS or MODBUS system. 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 device 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
- Power supply module available
- AES 120 bit data encryption
- Modules requires a nominal 24vDC supply
- RX and TX can be fitted with external antennas



MODULES

- Dispatched as a pre-programmed set of modules, with “X” transmitters and one receiver.



OPTIONS

- SMA connection for external antenna

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
- Power Supply



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