

MODBUS Pulse-Counter



Applications

- Utilities Metering
- Heat metering systems
- Automatic Metering Systems
- Solar PV monitoring
- Building Management Systems

Product description..

The ModBus pulse counter has 8 pulse input channels which can be connected to pulse output meters over more than 250 metres of cable. Pulses from the connected meters are counted, sorted into interval data and buffered in the flash memory for retrieval via the ModBus interface.

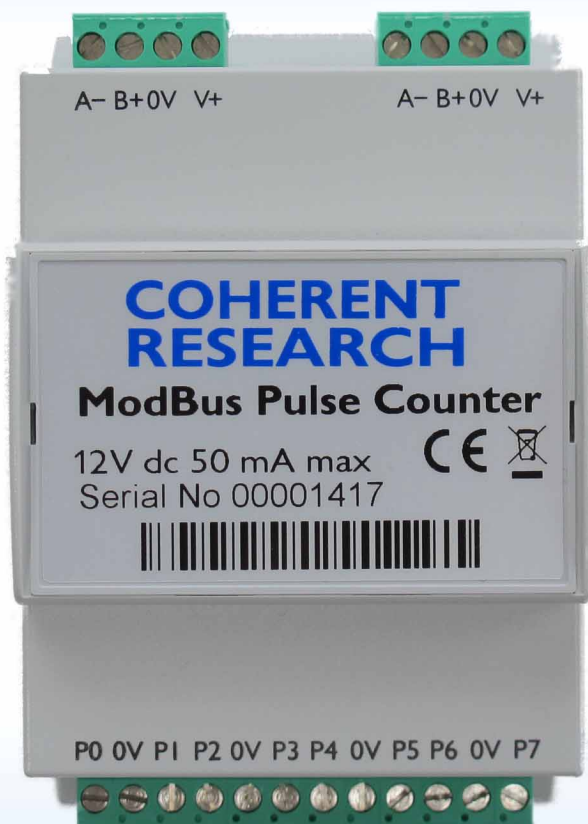
The Pulse Counter is powered by a 12 V dc supply and incorporates a rechargeable lithium ion battery to operate the Pulse Counter for around 500 hours in the event of a supply failure provided the duty cycle for the pulse inputs is low.

The device is intended for high reliability applications, operating 24/7. Once configured the ModBus Pulse Counter operates autonomously.

Key features and benefits

- 8 Pulse-count input channels
- Data-logging of all input count values at configurable sampling rate with time-stamping
- Internal battery back-up provides continuous logging during the event of a power failure.
- Large internal memory stores records with readable time-stamping
- Pulse inputs P1, P3, P5 & P7 can be configured to mirror the input on P0, P2, P4 & P6
- Flexible Modbus address and data-rate
- Easy to configure remotely via ModBus interface.
- Supports reprogramming over the ModBus interface.
- Industrial temperature range -30 to +70 °C operation
- CE certified, ready to deploy

MODBUS Pulse-counter



Specifications

Connections

Power and ModBus communications:

Two 4 pin 5.08 mm plug in terminal block connectors on upper face. Connectors are parallel connected suitable for 'daisy-chaining'.

Pulse-count inputs:

One 12 pin 5.08 mm plug in terminal block connector on the lower face provides 8 pulse inputs and 4 0Volt connections

Open circuit voltage: approximately +8 V

Short circuit current: approximately 1.7 mA

Minimum current: 1.2 mA to ensure detection of pulses

Mirroring Mode: 4 Pins can be set to mirror 4 other inputs

Power Supply and Consumption

Power Supply Interface: Via 4-pin RS482 connector

Input Voltage: 12 V. D.C. nominal

Power Consumption: Typically 10mA + pulse count currents.
Max 50mA whilst charging internal battery.

System and Interface

Dimensions: 70mm (W) x 66mm (D) x 110mm (H)

Enclosure: 4 module wide M36-DIN standard enclosure

ModBus interface data rates: Supports 1200, 2400, 4800, 9600, 19200, 38400, 57600 & 115200 bps

Communication ModBus settings and slave address are configured using the ModBus interface.

ModBus interface has a 1/8 unit load allowing up to 247 of the devices to be connected to a ModBus.

Data-logging space: Recording into 2 MegaByte Non-volatile Flash memory

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