HWM RADIO-TECH

ENERGY MANAGEMENT • AMR • ENVIRONMENTAL MONITORING • PRESSURE CONTROL • LEAK DETECTION • DATA LOGGING • FLOW MEASUREMENT •

Overview

Modbus Protocol is a messaging structure developed by Modicon in 1979. It is used to establish master - slave/client - server communication between intelligent devices that are connected to the same network.

The Radio-Tech Modbus receiver has been designed to provide a complete solution for either fixed network data collection. It is designed to work in conjunction with most Radio - Tech transmitters and sensors.

It detects all the Radio-Tech transmitters and keeps them in memory as required by the Modbus protocol. The receiver will respond to requests by a Modbus Master to report the data detected.
The receiver is available is four frequencies, 434MHz, 869MHz, 169MHz and the exclusive 153MHz

Operational

The Modbus Receiver supports the Modbus RTU Slave mode. For the receiver to operate, it needs to be programmed with the addresses of the transmitters it is expected to receive. A memory map is defined and this holds the transmitter IDs and the information received, which can be read by a Modbus Master device.

KEY BENEFITS

- Wireless

- Receives most Radio - Tech standard transmitters

- Simply mount on wall

- Weather proof enclosure

- Can be used with different antennas

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ACM ISO 9001 REGISTERED UKAS MANAGEMENT SYSTEMS

ACM ISO 14001 REGISTERED UKAS MANAGEMENT SYSTEMS

HWM

Frequency	434MHz	869MHz	153MHz	169MHz
No. of devices it can hold	32	32	32	32
Configurable address	Yes	Yes	Yes	Yes
Modbus mode supported	Modbus Slave RTU	Modbus Slave RTU	Modbus Slave RTU	Modbus Slave RTU
Slave address configurable	Yes	Yes	Yes	Yes
Hardware interface	RS232	RS232	RS232	RS232
Range (LoS)	250m	100m	2km	2km
Operating Temp	‑20C to +55C	20C to +55C	20C to +55C	20C to +55C
IP Rating	IP65	IP65	IP65	IP65
Power source	Mains powered	Mains powered	Mains powered	Mains powered
Antenna	Helical or Whip	Helical or Whip	Whip or Dipole	Whip or Dipole
Modbus Protocol	Slave RTU	Slave RTU	Slave RTU	Slave RTU

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