

IOMod 4RTD

4-channel temperature measuring device



Features

- Temperature measurement of 0.5°C accuracy for all operating conditions
- Temperature sensing range: from -200 to 800 °C using platinum RTD sensors
- Modbus, IEC-60870-5-103 communication over RS485 physical layer
- Selectable PT100 or PT1000 temperature RTD sensor and connection type (2, 3 or 4 wires) for each channel
- Configuration over USB console
- Drag and Drop firmware upgrade over USB mass storage
- LED indications for power, USB connection, sensor and temperature fault conditions for all channels
- Easy connection with **WCC Lite** gateway and **CloudIndustries.eu** platform



Concept

IOMod 4RTD is a stand-alone Modbus (RTU) and IEC 60870-5-103 temperature sensor device. Designed to measure indoor thermal statistics over a wide temperature range with high accuracy and repeatability even after frequent heating and cooling cycles. Equipped with 4 temperature measuring channels to enable temperature reading with default configuration.

IOMod 4RTD is an ideal solution for such applications as data acquisition, observation, process monitoring, testing and measurement remotely where high precision over a wide temperature range is needed. Further possible applications include plastics processing, microelectronics, textile processing, as well as numerous other.

IOMod 4RTD is Modbus or IEC-60870-5-103 protocol compatible, and can be connected in parallel with other equipment in a multi-drop installation scheme such as any SCADA system.

Characteristics

System

Analog inputs	4 RTD (PT100 / PT1000)
PC USB connection	Mini USB
Input connectors	Screw terminal plug connector

Software

Configuration	Over USB console
Firmware upgrade	Over USB mass storage

Communication

Communication standard	RS485
Communication protocol	Modbus (RTU) and IEC 60870-5-103
Speed	300 – 256000 baud

Electrical Characteristics

Termination resistor	Software selectable, 120Ω
Power supply	9-33VDC (full range)
Current consumption	40mA @ 12VDC, 20mA @ 24VDC

Mechanical Characteristics

Operating temperature	-40 ÷ +85 °C
Humidity	5-95% RH (non-condensing)
Casing	IP20, blend PC/ABS self-extinguishing, black
Dimensions	119 (H) x 17.5 (W) x 101 (L), mm
Mounting	DIN rail
Warranty	2 years

Application

When using **IOMod 4RTD** with **WCC Lite** gateway, it is possible to monitor temperature (using 4 different sensors) over Ethernet LAN's or 3G/4G(LTE)/GSM/GPRS networks. It is a powerful solution for remote monitoring and control, alarm management and data logging of I/O's on **CloudIndustries.eu** cloud platform.



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