Features

- Temperature measurement of 0.5°C accuracy for all operating conditions
- Temperature sensing range: from -200 to 800 °C using platinum RTD sensors, from -40 to 200 °C using NTC thermistors
- Modbus, IEC-60870-5-103 communication over RS485
- Three bidirectional digital inputs with separate counters/timers - 12-24 VDC, 2 kV isolation voltage
- Selectable PT100 or PT1000 temperature RTD sensor (2, 3 or 4 wires)
- Configuration over USB console
- Drag and Drop firmware upgrade over USB mass storage
- LED indications for power, USB connection, sensor and temperature fault conditions
- Spring contact connectors
- Easy connection with WCC Lite gateway and **CloudIndustries.eu** platform

Concept

IOMod T 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 3 digital inputs with separate broadly configurable counters/timers to bring more flexibility to your projects.

IOMod T 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 T 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	3 RTD (PT100 / PT1000), 1 NTC
PC USB connection	Mini USB
Input connectors	Spring contact connectors

Software

Configuration	Over USB console
Firmware upgrade	Over USB mass storage

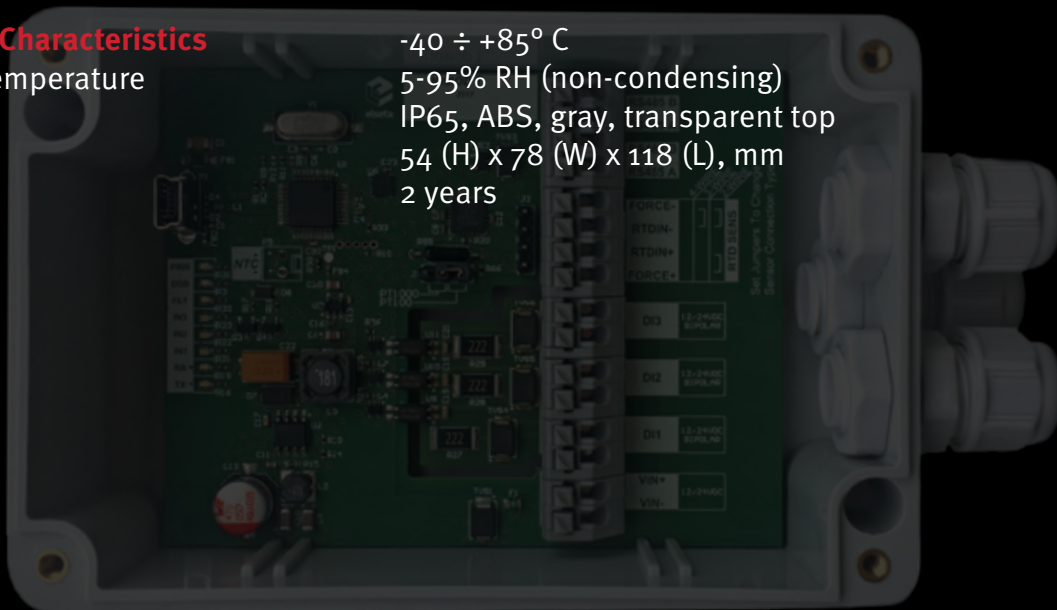## Communication

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	12-24VDC, 0.3W (nominal)
	9-33VDC (full range)
Inputs	12-24 VDC, 2 kV isolation, bidirectional

Mechanical Characteristics

Operating temperature	-40 ÷ +85° C
Humidity	5-95% RH (non-condensing)
Casing	IP65, ABS, gray, transparent top
Dimensions	54 (H) x 78 (W) x 118 (L), mm
Warranty	2 years

Application

When using **IOMod T** with **WCC Lite** gateway, it is possible to monitor temperature (using 2 different sensors) and digital inputs 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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