IOMod HT

Humidity and Temperature sensor

Features

- Temperature measurement in 0.1°C resolution
- Humidity measurement in 0.1% resolution
- Modbus, IEC-60870-5-103 communication over RS485
- 2 normally open relay outputs (advanced version)
- Automatically configurable relay switching on temperature or humidity change
- Configuration over USB console
- Drag and Drop firmware upgrade over USB mass storage
- LED indication for input/output and data transmission
- Spring contact connectors
- Easy connection with **WCC Lite** gateway and **CloudIndustries.eu** platform

Concept

IOMod HT is a stand-alone Modbus (RTU) and IEC 60870-5-103 temperature and humidity sensor device. Designed to measure indoor thermal statistics with high accuracy, IOMod HT can be used for numerous applications where user requires temperature and humidity monitoring. IOMod HT also can be used as thermostat that controls relay outputs according to user configuration on humidity and temperature limits.

IOMod HT is an ideal solution for such applications as data acquisition, observation, control, process monitoring, testing and measurement remotely. It is controlled over Modbus or IEC 60870-5-103 protocol, and can be connected in parallel with other Modbus or IEC 60870-5-103 equipment in a multi-drop installation scheme such as any SCADA system.

Characteristics

System	Basic	Advanced
Relay outputs	0	2
PC USB connection	Mini USB	Mini USB
Output connectors	Spring contact connectors	Spring contact connectors

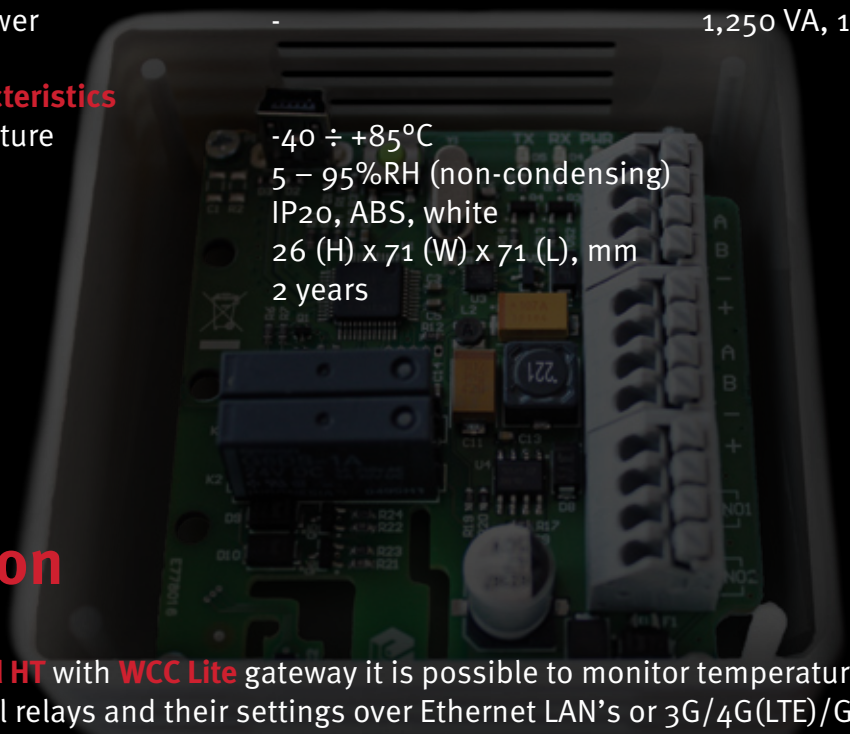
Software	
Configuration	Over USB console
Firmware upgrade	Over USB mass storage

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

Electrical Characteristics	Basic	Advanced
Termination resistor	Software selectable, 120Ω	Software selectable, 120Ω
Power supply	12-24VDC, 8mA (nominal) 5-33VDC (full range)	24VDC, 25mA (nominal) 18-27VDC (full range)
Relays	-	2 (normally open)

Relay Output Characteristics	Basic	Advanced
Resistive load (cosφ=1)	-	5 A at 250 VAC, 5 A at 30 VDC
Inductive load (cosφ=0.4, L/R=7ms)	-	2 A at 250 VAC, 2 A at 30 VDC
Max. switching power	-	1,250 VA, 150 W

Mechanical Characteristics	
Operating temperature	-40 ÷ +85°C
Humidity	5 – 95%RH (non-condensing)
Casing	IP20, ABS, white
Dimensions	26 (H) x 71 (W) x 71 (L), mm
Warranty	2 years



Application

When using **IOMod HT** with **WCC Lite** gateway it is possible to monitor temperature, humidity, relay status, also control relays and their settings 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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