

# IOMod HT

Humidity and Temperature sensor

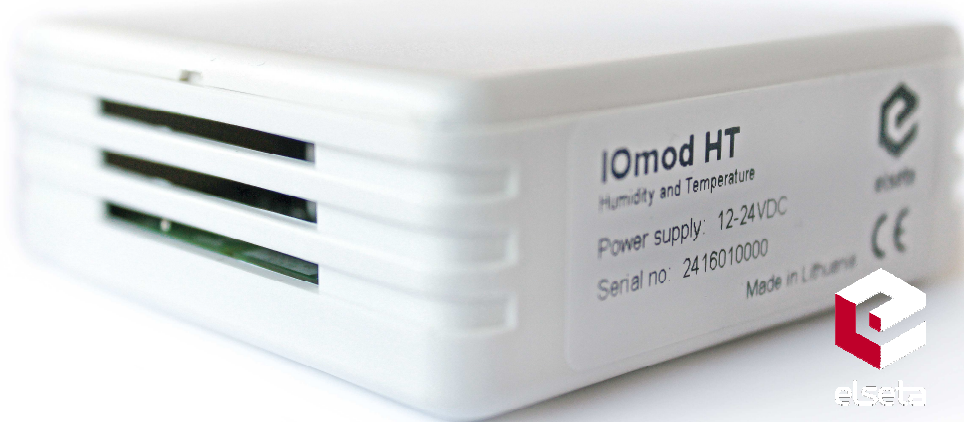
## Features

- Temperature measurement in 0.1°C resolution
- Humidity measurement in 0.1% resolution
- RS485 Modbus communication
- 2 normally open relay outputs (advanced version)
- Automatic configurable relay switching on temperature or humidity change
- Configurable 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 WCC200 gateway and Cloudindustries.eu platform

## Concept

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

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



## Characteristics

System		
Dimensions	26 (H) x 71 (W) x 71 (L), mm	
Case	ABS, white	
Working environment	Indoors	
Working temperature	-20 ÷ +70°C	
Recommended operating conditions	5 – 60°C and 20 – 80%RH	
Configuration	USB or Modbus	
Firmware upgrade	USB – mass storage device	
Electrical Characteristics		
	Basic	Advanced
Termination Resistor	Selectable 120Ω	Selectable 120Ω
Power supply	12-24VDC, 8mA (nominal) 5-33VDC (full range)	24VDC, 25mA (nominal) 18-27VDC (full range)
Relays	-	2 (Normally Open)
Power requirements		
	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

## Application

When using IOMod HT with WCC200 gateway it is possible to monitor temperature, humidity, relay status, control relays and their settings, all over Ethernet LAN's or 3G/GSM/GPRS networks. 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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