

CZAKI THERMO - PRODUCT

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USER'S MANUAL

AND WARRANTY CARD

TEMPERATURE AND HUMIDITY SENSOR

WITH TRANSMITTER

HTT-962-.../V

Application

The sensor consists of interconnected components: a shield of the temperature and humidity detector made of stainless steel 1H18N9T and a converter housing made of PC plastic.

Construction description

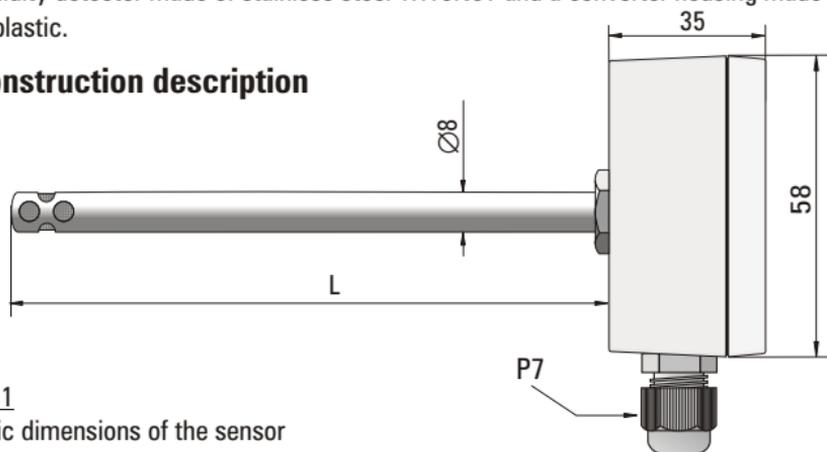


Fig. 1

Basic dimensions of the sensor

The sensor consists of interconnected: temperature and humidity detector cover made of 1H18N9T stainless steel and transmitter housing made of PC plastic.

The connecting cable is routed through the P7 cable gland and connected to the terminals inside the converter housing. The programmable measuring transmitter converts temperature and humidity changes into standard 0-10V voltage signals referenced to the supply minus.

Programming the transmitter

The transmitter is configured with a PC via the interface **IF-2013U** and the **E-config v.2.1** or later application. Refer to the IF-2013U interface manual for a description of the software installation and how to use it.

Wiring diagrams

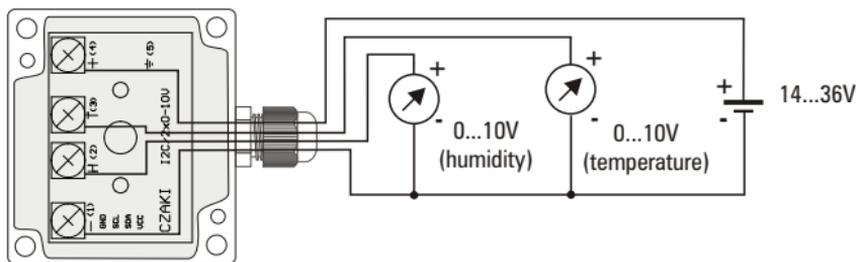


Fig. 2

Power supply and voltage output connections.

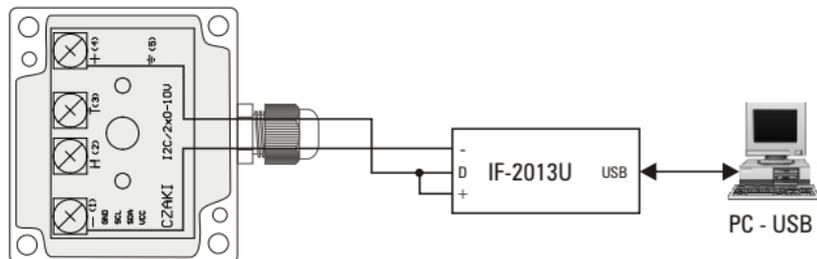


Fig. 3

Connecting the IF-2013U interface for programming time

Maintenance and service

The sensor does not require periodic maintenance. In case of damage, contact the CZAKI Sales Department.

List of equipment

The sensor set includes:

- sensor with built-in transmitter
- instruction manual with warranty card
- compression gland (additional accessories)

Technical data

Sensor

Measuring range	-40 ... +120°C, 0...100%RH
Processing element	SHT21 or SHT31 (Sensirion)
Sensor sheath material	steel 1H18N9T
Sensor cover diameter	8 mm
Length of sensor cover	according to order
Transmitter housing material	PC plastic
Transmitter housing dimensions	58 x 64 x 35 mm
Operating temp.of the housing	-20 ... +80°C
Additional accessories	compression gland KP

Transmitter

Temperature conversion range	programmable, maximum -40 ... +120°C (top-bottom $\geq 10^\circ\text{C}$)
Humidity processing range	programmable, maximum 0 ... 100% (top-bottom $\geq 10\%$)
Temperature processing error	0.5 °C
Humidity processing error	2% for RH $\leq 80\%$ and 3% for RH $> 80\%$
Output signals	0...10 V (default) or others in the range 0...10 V
Power supply	14 ... 36 V DC / 35 mA
Operating temperature T_0	-40 ... +80°C
Programming	via IF-2013U interface to USB of the computer (to be ordered separately)