CZAKI THERMO - PRODUCT 05-090 Raszyn - Rybie ul. 19 Kwietnia 58 tel. (22) 720 23 02 fax (22) 720 23 05 e-mail: handlowy@czaki.pl www.czaki.pl

INSTRUCTION MANUAL AND WARRANTY CARD TEMPERATURE AND HUMIDITY SENSOR WITH TRANSMITTER HTT-961-.../A

Application

This sensor is designed for measuring temperature and relative humidity in indoor spaces and ventilation ducts of air conditioning systems.

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 connection cable is routed through the P7 cable grommet and connected to terminals located inside the transmitter housing.

The programmable measuring transmitter converts temperature and humidity changes into standard current signals: 4-20 mA or 0-20mA referenced to the supply minus.

Programming the transmitter

The transmitter is configured using a PC via the interface IF-2013U.

For a description of the software installation and how to use it, refer to the IF-2013U interface manual.

Wiring diagrams



Fig. 2

Connection of power supply and current outputs



Fig. 3

Connecting the IF-2013U interface for programming duration

Maintenance and service

The sensor does not require periodic maintenance. In case of damage, please 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 accesories)

Technical data

Sensor

Measuring range Processing element Sensor sheath material Sensor cover diameter Length of sensor cover Transmitter housing material Transmitter housing dimensions Operating temperature of sheath Additional accessories

Transmitter

Temperature conversion range

Humidity processing range

Temperature processing error Humidity processing error Output signals

Power supply Operating temperature T_o Programming -40 ... + 120°C, 0...100%RH SHT21 or SHT31 (Sensirion) steel 1H18N9T 8 mm according to order PC plastic 58 x 64 x 35 mm -20°C... + 80°C sliding connector type KP

programmable, maximum -40 ... + 120°C (Top-down \geq 10°C) programmable, maximum 0 ... 100% (top to bottom \geq 10%) 0.5 °C 2% for RH \leq 80% and 3% for RH > 80% 4...20 mA (default) or others in the range 0...20 mA 12 ... 36 V DC / 55 mA -40°C...+80°C via IF-2013U interface to USB of the computer (to be ordered separately)