



HD 4049



HD 404



HD 5002



78X48 OR 96X96 PANEL REGULATORS FOR CONNECTION TO TEMPERATURE AND RELATIVE HUMIDITY TRANSMITTERS

78X48 OR 96X96 PANEL REGULATORS FOR CONNECTION TO DELTA OHM TEMPERATURE AND RELATIVE HUMIDITY TRANSMITTERS WITH INPUT 4÷20 mA

MODELS: HD 404, HD 4049

CHARACTERISTICS SHARED BY THE VARIOUS MODELS:

- Resolution: 0.1°C, 0.1% R.H.
- Display: red LEDS, height 12.7 mm
- Precision: instrument only ±0.1
- Power supply: 12÷24 V±
- Relay contacts for the regulators: Clean exchange contact 3A/220 Vac resistive
- Electronics working temperature: -5...50°C

HD 404 ON/OFF temperature regulator

This regulator may be connected to the transmitters of the series: **HD 2008T, HD 2012T...** as long as the temperature configuration of the transmitter is the same as the regulator
Regulating range: 4 mA ± -20°C, 20 mA ± +80°C Hysteresis: 0.6÷6°C.
Bridge for selecting the function: ☼ / ✨

HD 4049 ON/OFF relative humidity regulator

This regulator may be connected to the transmitters of the series: **HD 797T, HD 2007T, HD 2008T, HD 2011T, HD 2012T**
Regulating range: 4 mA ± 0% R.H., 20 mA ± 100% R.H.
Hysteresis: 1÷6 points of relative humidity
Bridge for selecting the function: humidify/dehumidify.

HD 5002, HD 5002/5

The HD 5002 or the HD 5002/5 in combination with temperature and relative humidity transmitters forms a complete temperature and humidity measuring and regulating system. Depending on the series, the HD 5002 feeds the transmitter and measures the absorbed current which is proportional to the relative humidity (terminal IR.H.) and the temperature (terminal It).

Voltage drops along the connection wires do not influence the measurement precision, since the signal is a current and not a voltage.

Regulation is of the three-point type (heat - OFF - cool for temperature, humidify - OFF - dehumidify for relative humidity). **Also, an alarm contact is made if the temperature differs by more than 8°C from the set value (or if humidity differs by more than 15% from the set R.H.).** A dip switch on the rear of the instrument selects the alarm conditions, high or low for temperature, high or low for humidity.

TECHNICAL DATA

Using range: humidity 0%...100% R.H.

Temperature: -20...+80°C (HD 5002), -30...+130°C (HD 5002/5) depending on the transmitter used **Resolution:** 0.1°C, 0.1% R.H.

Precision: transmitter included, relative humidity: ±2,5% up to 90% R.H., ±3% beyond 90% R.H. Temperature: ±0.3°C

Hysteresis: 0.6°C±6°C, 1÷10 points of relative humidity

Display: red LEDS; 3 ½ figures, height 12.7 mm

Outputs: 4 exchange contacts (↑°C, ↓°C, ↑%R.H., ↓%R.H.) plus alarm contact when made, capacity 3 A/220 Vac resistive

Power supply: 24 Vac

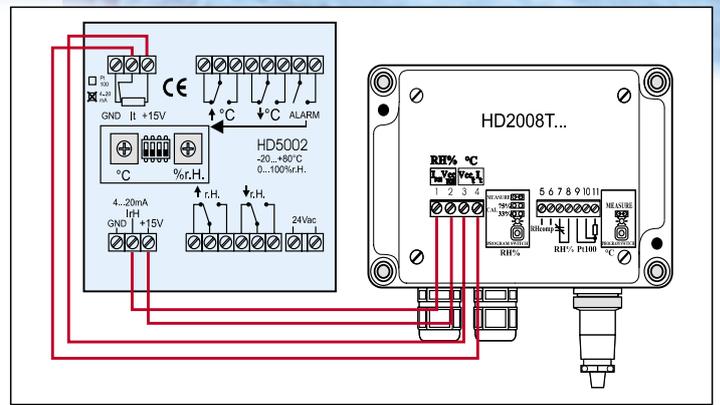
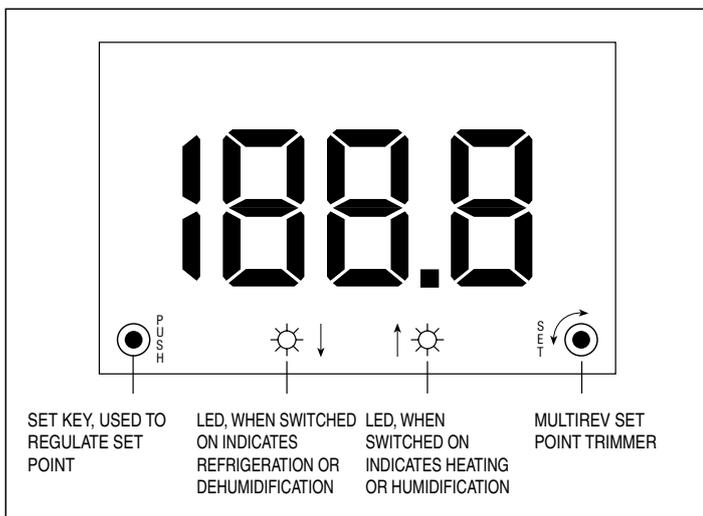
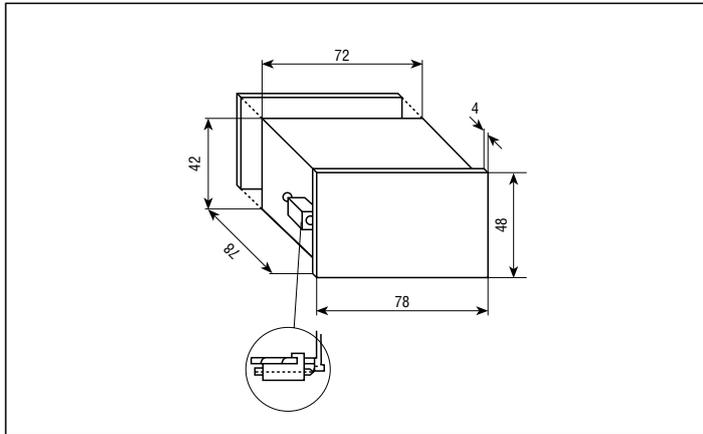
Instrument working temperature: -5...+50°C

Dimensions: front panel: 96x96 mm.

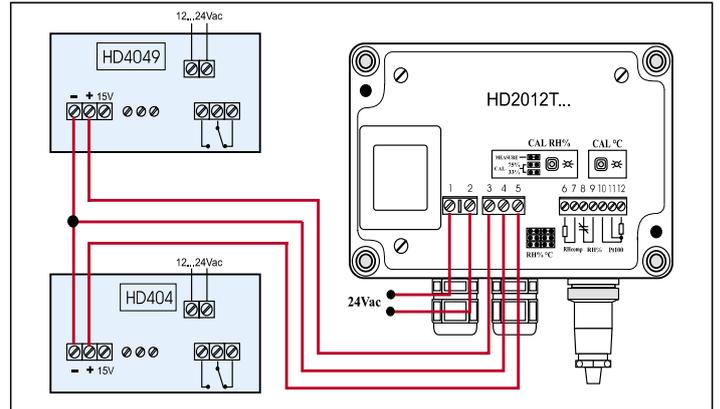
instrument body: 88x90x123 mm.

ATTENTION: For compatibility with DELTA OHM 4÷20 mA regulators place the jumper in the position 4÷20 mA .

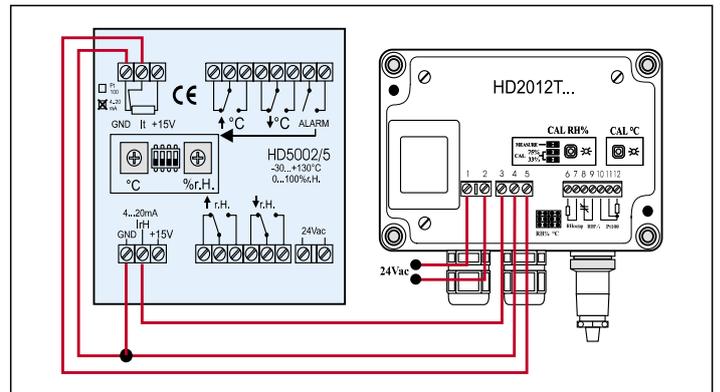
With the multidrop technique, more than one regulator, indicator or recorder may be connected in series.



The temperature configuration of the transmitter HD2008T connected to HD5002 has to be: 4mA = -20°C ... 20mA = +80°C.



The temperature configuration of the transmitter HD2012T, connected to HD404 has to be: 4mA = -20°C ... 20mA = +80°C.



The temperature configuration of the transmitter HD2012T, connected to the HD5002/5 has to be: 4mA = -30°C ... 20mA = +130°C.

