

## HUMIDITY TRANSMITTER KLHJ 100

KLHJ 100 and KLHJ 100-N detect relative humidity by a capacitive and temperature by an NTC10 sensors. There is a 2m cable between sensors and the transmitter electronics. Linear output signals (humidity and temperature) can be coded either to 0...10V or 4...20mA signals at the commissioning.

High quality sensors guarantee the long stability and wide ranges both for humidity (0...90 %RH) and temperature (-40...+50 °C) detecting. Sensor elements are protected by the plastics filter.

Mounting on the wall by the screws.  
Sensors can be installed to the duct by the flange on the sensor probe.

KLHJ 100 - N is like KLHJ 100, but with a display. Display is scanning between humidity and temperature and it can be fixed to show either humidity or temperature by loosing the jumper on back of the display board.



### Technical data:

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Supply                     | 24 Vac/dc<br>(15-28Vac/dc) < 1VA                                                         |
| Outputs                    | 0...10Vdc < 2 mA<br>4...20mA < 600 ohm<br>4...20mA < 375...525 ohm*<br>*(+Vdc-7,5V)/20mA |
| by using 15...18Vdc-supply |                                                                                          |
| Ranges                     |                                                                                          |
| humidity                   | 0...100 % RH                                                                             |
| temperature                | -50...+50°C                                                                              |
| Accuracy                   |                                                                                          |
| humidity                   | +/- 2 %RH (0...90%RH)                                                                    |
| temperature                | +/- 0.5°C / 25°C                                                                         |
| Sensors                    |                                                                                          |
| humidity                   | capacitive                                                                               |
| temperature                | thermistor                                                                               |
| Long term stability        | +/- 5 %RH, 24kk                                                                          |
| Protection class           |                                                                                          |
| transmitter                | IP 54                                                                                    |
| sensor                     | IP 50                                                                                    |
| Cable                      | 2m LIYCY 5 x 0,25                                                                        |
| Dimensions w x h x d       | 70 x 98 x 220 mm                                                                         |
| Materials                  | PBT, PC, PA and stainless steel                                                          |

### Wiring:

|   |                                      |
|---|--------------------------------------|
| 1 | 24 Vac/dc                            |
| 2 | 0V                                   |
| 3 | %RH – output, out 1 (0-10V / 4-20mA) |
| 4 | °C – output, out 2 (0-10V / 4-20mA)  |

### Ordering guide:

| Model      | Product number | Description                       |
|------------|----------------|-----------------------------------|
| KLHJ 100   | 1132260        | humidity transmitter              |
| KLHJ 100-N | 1132261        | humidity transmitter with display |

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).