

HUMIDITY TRANSMITTER HMW60U

HUMIDITY AND TEMPERATURE TRANSMITTER HMW60Y

MOUNTING

The HMW60U/Y humidity and temperature transmitters are truly two-wire transmitters that can be mounted directly on the wall. First attach the base plate with the two screws provided. Thread wires through the opening in the transmitter board. Note the UP sign which shows the correct mounting position. Be careful not to damage the HUMICAP[®] 180 sensor.

Make the connections according to Figure 2.

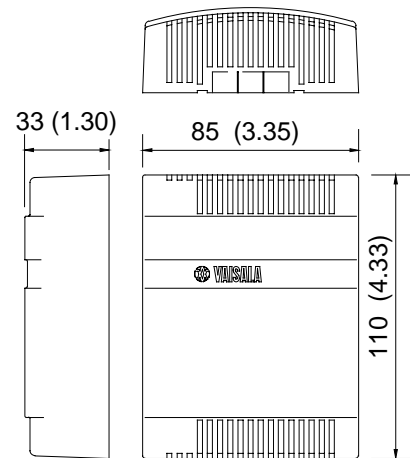


Figure 1 Dimensions of the HMW60U/Y

ELECTRICAL CONNECTIONS

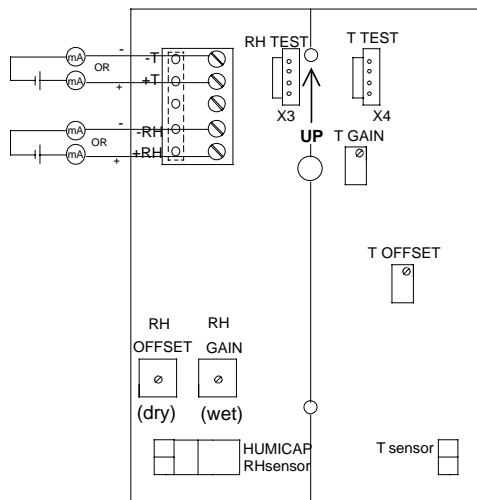


Figure 2 Electrical connections

Signal cables are connected to a removeable 5-pole screw connector.

REPLACEMENT OF THE HUMICAP SENSOR

Remove the damaged sensor and insert a new one. Handle the sensor by the plastic socket. Recalibrate the transmitter.

ONE-POINT RH-CALIBRATION

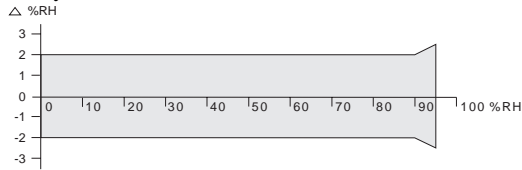
The accuracy is recommended to be checked at least once a year; the interval depends on the operating conditions and the required accuracy of the measurement. If adjustment is necessary, use the RH offset potentiometer. The transmitter calibration can be conveniently checked with the HMI41 indicator equipped with an appropriate probe and optional calibration cable.

TECHNICAL DATA

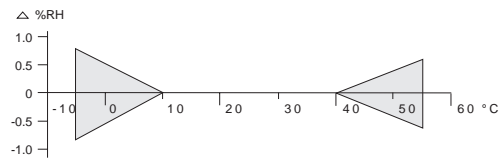
Relative humidity

Measurement range 0...95 %RH
(output signal corresponds to 0...100 %RH)

Accuracy at +20 °C



Temperature dependence



Response time (90%)

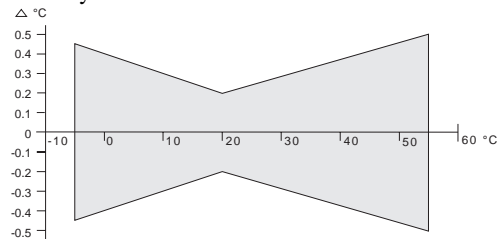
at 20 °C in still air 15 s

Humidity sensor HUMICAP®180

Temperature (Y model only)

Measurement range -5...+55 °C

Accuracy



Linearity better than 0.1 °C

Temperature sensor Pt 1000 IEC 751
class B

General

Supply voltage 10...35 VDC ($R_L = 0\Omega$)
20...35 VDC ($R_L = 500\Omega$)

Output signal 4...20 mA

Operating temperature

range -5...+55 °C

Storage temperature range -40...+80 °C

Long-term humidity range
for electronics 0...85 %RH

Housing:

cover ABS plastic

base plate PA

Connections Screw terminals
0.5...1.5 mm²

Electromagnetic compatibility

The emission and immunity tests have been performed according to standards EN50081-1 and EN50082-1.

Emissions:

Test	Setup according to	Performance
Radiated interference	EN55022	class B

Immunity:

Test	Setup according to	Performance
Electrostatic discharge	IEC 801-2:1991	criteria B

Electrical fast transients	IEC 801-4:1988	criteria B
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RF radiated fields	IEC 801-3:1984	criteria A
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*GSM-field immunity	ENV50204:1995	criteria A
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(*additional test)



GUARANTEE

Vaisala issues a guarantee for the material and workmanship of this product under normal operating conditions for one year from the date of delivery. Exceptional operating conditions, damage due to careless handling or misapplication will void the guarantee.