

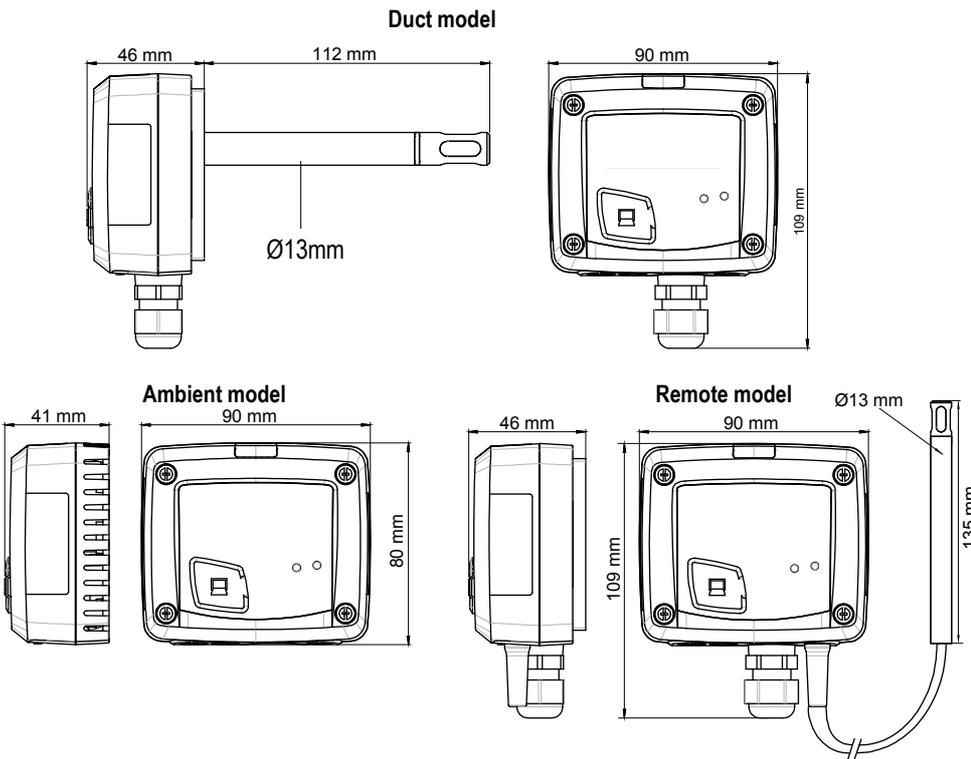
Humidity transmitter HM 110



KEY POINTS

- Measuring range from 5 to 95% RH
- 0-10 V output, active, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply from 16 to 30 Vdc (2 wires)
- ABS V0 housing IP65 (duct or remote model) or IP20 (ambient model), without display
- "¼ turn" system mounting with wall-mount plate
- Housing with simplified mounting system

FEATURES OF HOUSING



Material

ABS V0 as per UL94

Protection

IP65 (remote and duct models)
IP20 (ambient model)

Cable gland (remote and duct models)

For cables Ø8 mm maximum

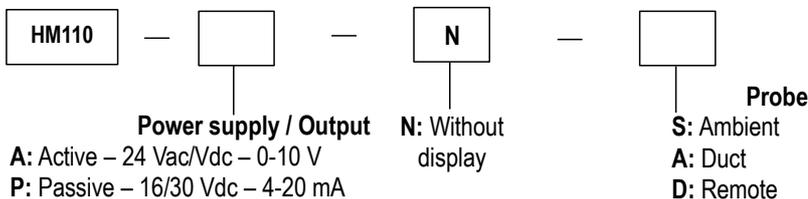
Weight

145 g (ambient model); 223 g (remote and duct models)

Cable of remote probes: length 2 m and Ø4.8 mm in silicone

PART NUMBER

To order, just add the codes to complete the part number:



Example: HM110 – ANS

Ambient humidity transmitter HM110, active 0-10 V

TECHNICAL FEATURE IN HUMIDITY

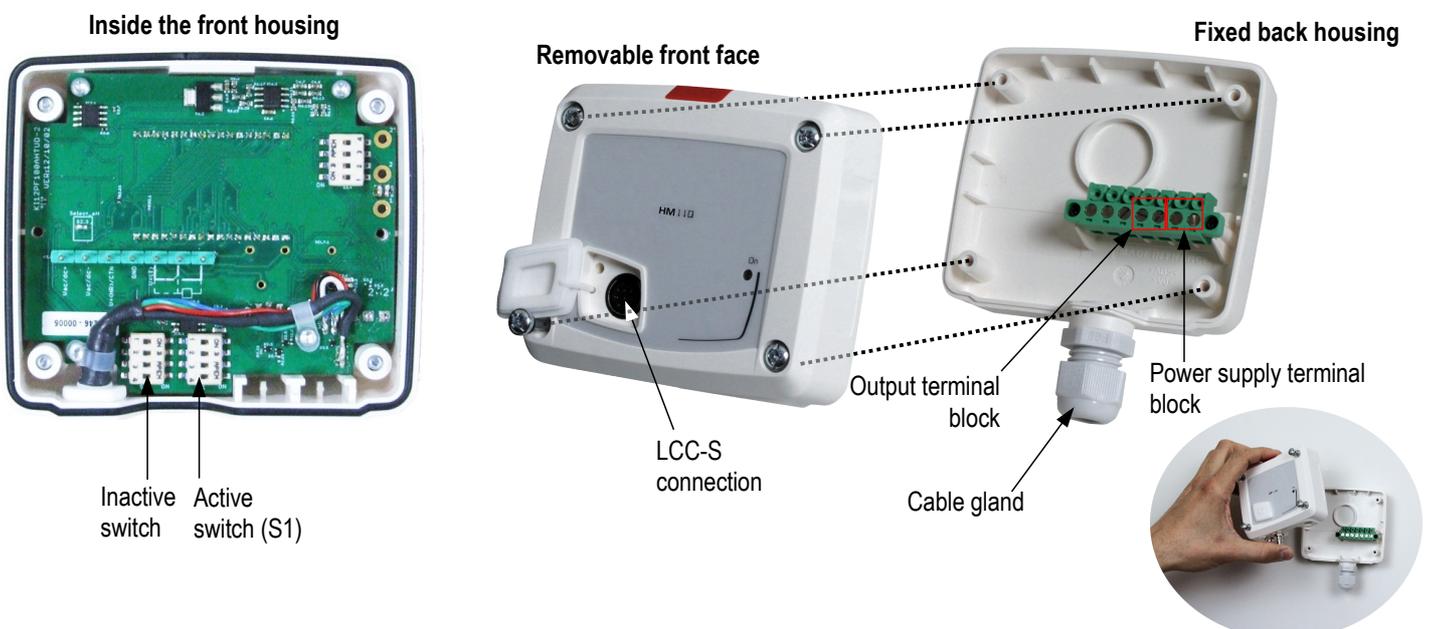
Measuring range	from 5 to 95% RH
Analogue output	From 0 to 10% RH
Accuracy*	±1.5% RH (if 15°C ≤ T ≤ 25°C) on remote and duct models ±2% RH (if 15°C ≤ T ≤ 25°C) on ambient model
Drift linked to temperature	±0.04 x (T-20) % RH (if 15°C ≤ T ≤ 25°C)
Unit of measurement	% RH
Response time	1/e (63%) 4 s
Type of sensor	Capacitive
Resolution	0.1% RH
Factory adjustment uncertainty	±0.88% RH
Type of fluid	Air and neutral gases

*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

TECHNICAL SPECIFICATIONS

Output / Power supply	- active sensor 0-10 V (power supply 24 Vac/Vdc ±10%), 3-4 wires - passive loop sensor 4-20 mA (power supply 16/30 Vdc), 2 wires - common mode voltage <30 VAC - maximum load: 500 Ohms (4-20 mA) / minimum load: 1 K Ohms (0-10 V)
Consumption	2 VA (0-10 V) or 0.6 VA (4-20 mA)
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE
Electrical connection	Screw terminal block for cables from 0.05 to 2.5 mm ² or from 30 to 14 AWG Carried out according to the code of good practice
PC communication	USB-mini DIN cable
Environment	Air and neutral gases
Conditions of use (°C/%RH/m)	From 0 to +50°C. In non-condensing condition. From 0 to 2000 m.
Operating temperature of the probe	From -20 to +80°C
Storage temperature	From -10 to +70°C

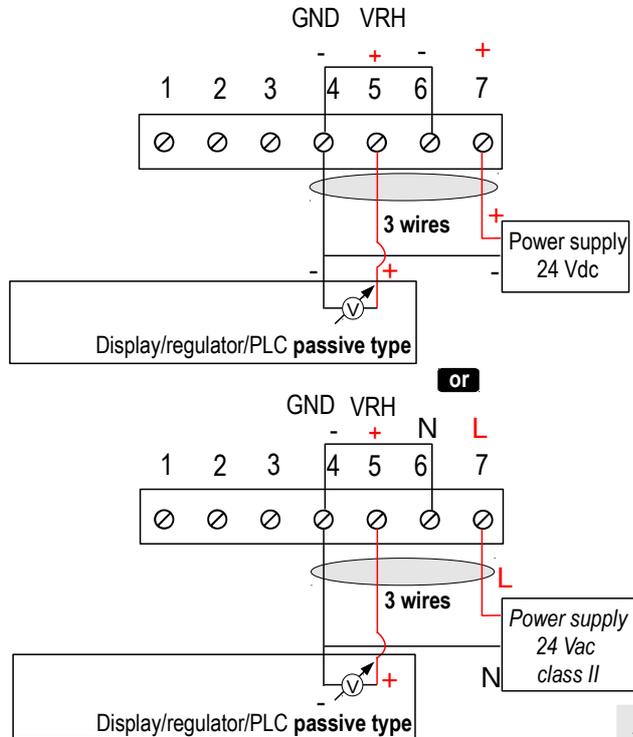
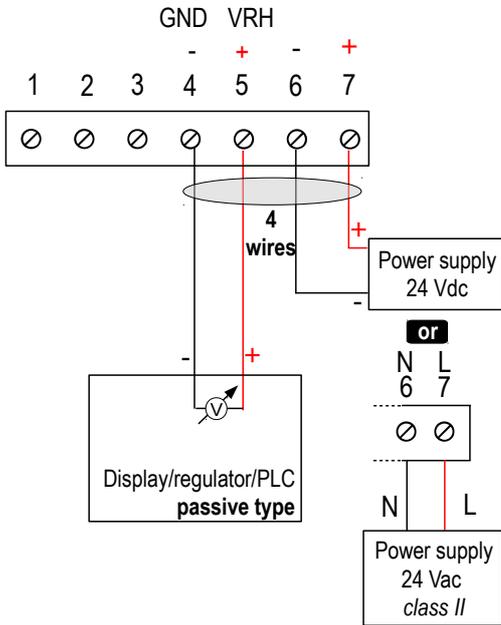
CONNECTIONS



 This connection must be made by a qualified and trained technician. To make the connection, the transmitter must not be energized.

For **HM110-A** models with **0-10 V** output – active:

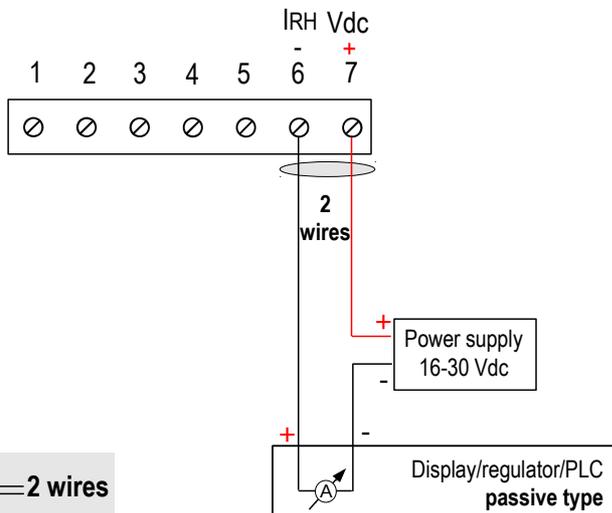
 To make a 3-wire connection, before powering up the transmitter, please connect the output ground to the input ground. See drawing below.



==== 4 wires

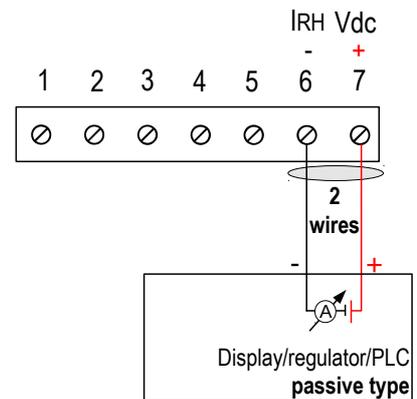
==== 3 wires

For **HM110-P** models with **4-20 mA** output – passive:



==== 2 wires

or



==== 2 wires

