WVAISALA

or

2% WALL- AND DUCT-MOUNT RELATIVE HUMIDITY TRANSMITTERS HM 60, HM 70 SERIES

DESCRIPTION

Vaisala's Models HM_ 60 and HM_ 70 Wall- and Duct-Mount Relative Humidity Transmitters have been specifically designed for use in HVAC/BAS and pharmaceutical applications. These instruments measure relative humidity from 0% to 100%. They are easily installed and meet the European CE standards.

Five-minute field calibration is possible using the Model HMK 41K Humidity Calibrator. When accuracy adjustment or sensor replacement is necessary, the transmitter can be calibrated in seconds with a single potentiometer without disturbing operation. This saves hours of maintenance time and assures high accuracy.

FEATURES

- · Comes with NIST certificate
- Full 0% to 100% RH measurement
- State-of-the-art replaceable sensor technology
- ±2% RH accuracy
- Electronic, on-site one-point calibration
- Two-wire, 4-20 mA output (HMW 60)
- Voltage output (HMW 70)
- · Easy installation with wall mounting
- Temperature compensated
- Optional built-in temperature transmitter
- OSA mounting brackets available





SPECIFICATIONS

HM 60. HM 70 Sensor

Input voltage (60) Input voltage (70) **Output signal**

HM_ 60 **HM** 70 **Electrical connections** Wall-mounted box

Duct housing Output range

Transmitter temp range **Wall Mount**

Duct Mount Operating temp range

Electronics Duct Sensor Tip Capacitive and replaceable Humicap® 180

10-35 VDC (signal dependent)

14-24 VAC/VDC

4-20 mA, 700Ω @ 24 VDC $0-1, 0-5, 0-10V, 3000\Omega$ min Screw terminals (20-16 AWG)

ABS plastic

Cast aluminum NEMA 4 (IP55)

0% to 100% RH

23° to 131°F (-5° to 55°C) -4° to 176°F (-20° to 80°C)

23° to 131°F (-5° to 55°C) -4° to 176°F (-20° to 80°Ć) **Accuracy** @ **68°F** (**20°C**) ±2% RH (0% to 90% RH) ±3% RH (90% to 100% RH) Temperature - better than .1% Weight

Room Duct

HMK 41

Agency approvals

Sensor Operation Operating temp Measuring range

Reference probe accuracy

Storage temp Temp coefficient **Battery** Weight

Agency approvals Warranty

0.32 lb (0.14 kg) 1.68 lb (0.76 kg) CE, NIST certificate

Capacitive and replaceable Handheld, onsite calibrator -40° to 140°F (-40° to 60°C) 0% to 100% RH, -40° to 140°F (-22° to 78°C)

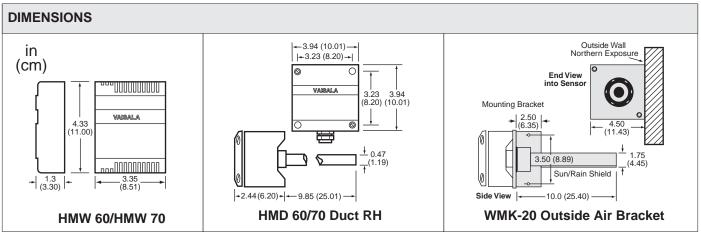
±1% RH (0% to 90% RH) ±2% RH (90% to 100% RH) -4° to 140°F (-20° to 60°C) +0.04% RH/°C typical Four AA (LR6)(not included)

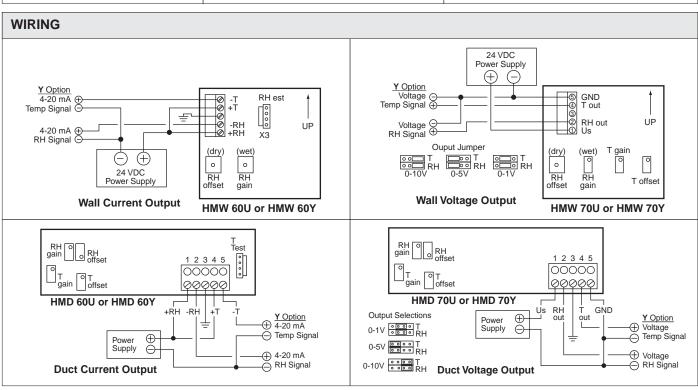
2.1 lb (0.95 kg) CE. NIST certificate

1 year



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MODEL	DESCRIPTION
HMW 60U	Wall mount, 4-20 mA output
HMW 70U	Wall mount, 0-1 VDC, 0-5 VDC, 0-10 VDC outputs
HMW 60Y	Wall mount, humidity with 4-20 mA output, temperature with 4-20 mA output
HMW 70Y	Wall mount, humidity, and temperature, 0-1 VDC, 0-5 VDC, 0-10 VDC outputs
HMD 60U	Duct RH transmitter, 4-20 mA output
HMD 70U	Duct RH transmitter 0-1V, 0-5V, 0-10V output
HMD 60Y	Duct RH and temperature transmitter, 4-20 mA output
HMD 70Y	Duct RH and temperature transmitter, 0-1V, 0-5V, 0-10V output
	RELATED PRODUCTS
HMK 41K	1% electronic calibrator with calibration cable
HUMICAP180	Replaceable humidity sensor (replaces 0062HM)
WMK-20	OSA/Wall-mount bracket



Vaisala HMD60U/Y humidity transmitter

Output quantities: Relative humidity (%), temperature (°C/°F) in model HMD60Y

Supply voltage: 10...35 VDC ($R_L = 0 \text{ O}$), 20...35 VDC ($R_L = 500 \text{ O}$) 4...20 mA (corresponding 0...100% RH, -20...+80°C)

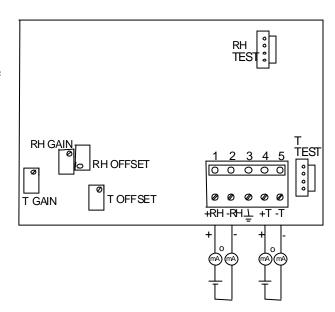
Screw terminals: 0.5...1.5 mm²

Wiring

Signal cables are connected to a removable 5-pole screw connector. The figure on the right shows the electrical connections.

The same connections are shown below in an alternative way.

RH test and T test connectors are used with the HMI41 indicator equipped with an appropriate probe and optional calibration cable.



HMD60U

RH TEST RH GAIN RH OFFSET T O O O O O O RH -RH = RH CHART RECORDER AMMETER OR CONTROLLER

HMD60Y

