



# Technical Data

## 60 series: 2-wire, 4 to 20 mA output

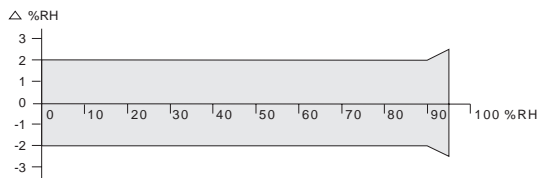
Wall mount	RH only	HMW60U
	RH & T	HMW60Y
Duct mount	RH only	HMD60U
	RH & T	HMD60Y

## 70 series: 3-wire, variable voltage output

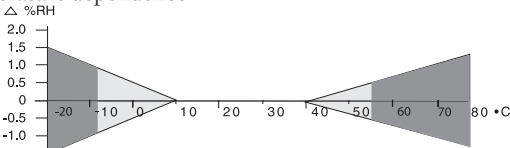
Wall mount	RH only	HMW70U
	RH & T	HMW70Y
Duct mount	RH only	HMD70U
	RH & T	HMD70Y

## Relative humidity

Measurement range	0 ... 100 %RH*
duct mount	0 ... 95 %RH*
wall mount	
Accuracy at +20 °C	



Temperature dependence

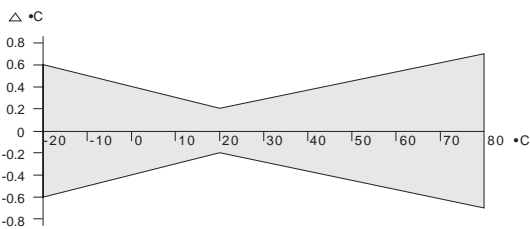


(dark grey area for duct model only)

Response time at +20 °C (+68 °F)	15 s (with membrane filter)
90% response	
Sensor	HUMICAP® 180
* Output signal corresponds to 0 ... 100 %RH	

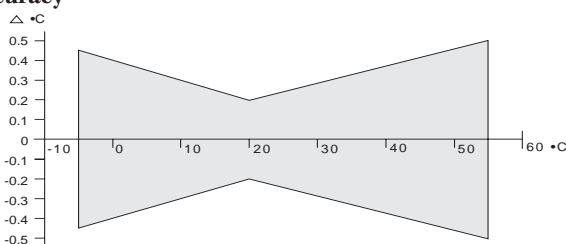
## Temperature (Y-models only)

Linearity	better than 0.1 °C
Sensor	Pt 1000 IEC 751 class B
<b>HMD60Y and HMD70Y</b>	
Measurement range	-20 ... +80 °C (-4 ... 176 °F) **
Accuracy	



## HMW60Y and HMW70Y

Measurement range	-5 ... +55 °C (+23 ... 131 °F) **
Accuracy	



\*\* Optional temperature scales are available on request.

## General - 60 series

Supply voltage	10 ... 35 VDC (RL = 0 ohm)
	20 ... 35 VDC (RL = 500 ohm)
Output signal	4 ... 20 mA

## General - 70 series

Supply voltage range depends on the selected output signal		
	DC	AC
0 ... 1V	10 ... 35 V	9 ... 24 V
0 ... 5 V	14 ... 35 V	12 ... 24 V
0 ... 10 V	19 ... 35 V	16 ... 24 V
**0 ... 20 mA (RL = 0 ohm)	10 ... 35 V	11 ... 24 V
**0 ... 20 mA (RL = 500 ohm)	20 ... 35 V	17 ... 24 V
** HMD models only.		
Power consumption @ 24 VAC		
HMD/W70U		10 mA typical
HMD/W70Y		12 mA typical

## General

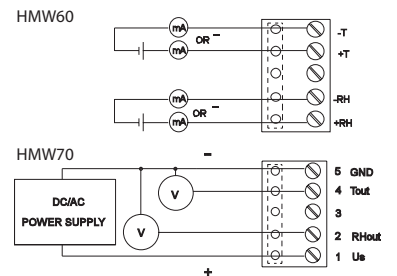
Operating temperature range	
electronics	-5 ... +55 °C (+23 ... +131 °F)
probe (duct mount)	-20 ... +80 °C (-4 ... +176 °F)
Storage temperature range	-40 ... +80 °C (-40 ... +176 °F)
Long-term humidity range for electronics (wall mount)	0 ... 85 %RH
Housing	
probe (duct mount)	stainless steel
electronics (duct mount)	cast aluminum
electronics (wall mount)	ABS plastic
Connections	screw terminals 0.5 ... 1.5 mm <sup>2</sup>
Sensor protection (duct mount)	
standard	membrane filter (part no. DRW010525)
optional	stainless steel sintered filter (part no. HM446670)
For duct mount units:	
Cable thread-through	
bushing for 7 ... 10 mm (PG9)	
cable housing IP65 (NEMA 4)	part no. 18941HM
or	
armoured cable glands	part no. 10528HM
(must be ordered separately)	

For field check  
HM70 hand-held humidity and temperature meter or  
HMI41 humidity indicator

Complies with EMC standard EN61326-1:1997 + Am1:1998 + Am2:2001; Generic Environment.

## Wiring

HMW60/70 wiring diagram      HMW60/70 wiring diagram



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