



Order form  
Purchaser

Valid from May 2019  
Order no

## Vaisala HUMICAP® Humidity and Temperature Module HMM170

Humidity Module		HMM170	1	2	3	4	5	6	7	8	PRICE			
1	Output signals RS485 digital output only (Modbus RTU / RS485 in use) 4... 20 mA (3.6 mA when in error state) Digital output always included 4... 20 mA (21 mA when in error state) 0... 20 mA (21 mA when in error state) 0... 10 V (10.3 V when in error state) analog outputs can always be activated and reconfigured afterwards 0... 5 V (5.5 V when in error state) 1... 5 V (5.5 V when in error state) 0... 1 V (1.1 V when in error state)	Td/f with warmed probe default*	0... +100 °C (+32... +212 °F)	A	A	A								
		Td/f with warmed probe default*	-20...+100 °C (-4...+212 °F)	C	C	C								
		Dewpoint/frostpoint (Td/f) output	0... +100 °C (+32... +212 °F)	D	D	D								
		Relative Humidity (RH)	0... 100 % RH	E	E	E								
		T	0... +180 °C (+32... +356 °F)	F	F	F								
		T	-70... +180 °C (-94... +356 °F)	G	G	G								
		T	0... +100 °C (+32... +212 °F)	H	H	H								
		CUSTOMER FREE SCALE	Td/f (between -80... +100 °C, metric) T (between -100... +200 °C, metric) Td/f (between -120... +212 °F, non-metric) T (between -148... 392 °F, non-metric)	Scale : _____ Scale : _____ Scale : _____ Scale : _____	J	J	J	K	K	K	L	L	L	M
For moisture in oil	<b>Water activity (aw)</b>	0... 1	R	R	R									
For moisture in oil	<b>Relative saturation (% RS)</b>	0... 100 % RS	S	S	S									
Mineral transformer oil only	<b>PPM<sub>weight</sub></b>	0...100 ppm	T	T	T									
CUSTOMER FREE SCALE	PPM <sub>volume</sub> Mixing ratio (x) Absolute humidity	Scale: _____ (0... 10 <sup>7</sup> ppm) Scale: _____ (0... 10 <sup>3</sup> g/kg) Scale: _____ (0... 10 <sup>3</sup> g/m <sup>3</sup> )	X	X	X	Y	Y	Y	Z	Z	Z			
*NOTE: When warmed probe is enabled, only dew/frost point (Td/f) output is possible. This prevents erroneous RH and T outputs. Probe warming can be manually set on/off afterwards.														
5	Probe type and cable length	Stainless steel probe with 2 m / 6.5 ft cable (-70 °C... +180 °C)									1			
		Stainless steel probe with 5 m / 16.4 ft cable (-70 °C... +180 °C)										2		
		Stainless steel probe with 10 m / 32.8 ft cable (-70 °C... +180 °C)										3		
6	Humidity sensor type and chemical purge	Purge on every start-up and after every 24 hours	HUMICAP® R2C								A			
		Purge on every start-up only	HUMICAP® R2C								B			
		No purge (manual purge is still possible)	HUMICAP® R2C								C			
		Moisture in oil sensor	HUMICAP® 180L2								D			
		H <sub>2</sub> O <sub>2</sub> tolerant sensor with start-up and 24h purge	HUMICAP® 180VC								E			
7	Sensor protection	PPS with stainless steel mesh (general purpose)	(spare: DRW010281SP)								1			
		Sintered stainless steel filter with 38 um pore size	(spare: HM47280SP)								2			
		Sintered PTFE filter with 20 um pore size	(spare: 219452SP)								3			
		Stainless steel filter for moisture in oil and vacuum	(spare: HM47453SP)								4			
8	Product identity	Vaisala (default)									A			
										TOTAL				
										QTY				
										TOTAL VALUE				

Selections in bold are included in the prices of the basic versions.  
Selections in *italic* are available at an extra price.

Example of order code with typical settings for RH&T measurement:	<b>HMM170</b>	<b>2</b>	<b>E</b>	<b>G</b>	<b>A</b>	<b>1</b>	<b>A</b>	<b>1</b>	<b>A</b>
Example of order code with typical settings for dew point measurement:	<b>HMM170</b>	<b>2</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>1</b>	<b>A</b>	<b>1</b>	<b>A</b>
Example of order code with typical settings for moisture in oil measurement:	<b>HMM170</b>	<b>2</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>1</b>	<b>D</b>	<b>4</b>	<b>A</b>

End customer: \_\_\_\_\_

**Accessories:**

- 219690 USB cable for PC connection
- 219980 HM70 Hand-held connection cable
- HMP247CG Feedthrough
- SWG12NPT12 Swagelok NPT1/2" Pressure-tight Installation Adapter for Probe
- SWG12ISO12 Swagelok ISO 1/2" Pressure-tight Installation Adapter for Probe
- 210697 Duct installation kit for probe
- 226067 Probe Mounting Clamp Set (10 pcs)

**Spare parts:**

- DRW010281SP PPS Plastic grid & stainless steel netting
- HM47280SP Stainless steel sintered filter
- 219452SP Sintered PTFE filter with 20 um pore size
- HM47453SP Stainless steel filter for moisture in oil and vacuum