



VAISALA

 Order form
 Purchaser

 Valid from May 2019
 Order no

Vaisala HUMICAP® Humidity and Temperature Module HMM170

Humidity Module		HMM170								PRICE		
1	Output signals	RS485 digital output only (Modbus RTU / RS485 in use)										
	Digital output always included	4... 20 mA (3.6 mA when in error state)	1	2	3	4	5	6	7	8		
	analog outputs can always be activated and reconfigured afterwards	4... 20 mA (21 mA when in error state)	Channel 1	Channel 2	Channel 3							
		0... 20 mA (21 mA when in error state)	1	2	3							
		0... 10 V (10.3 V when in error state)	4	5	6							
		0... 5 V (5.5 V when in error state)	7	8								
		1... 5 V (5.5 V when in error state)										
		0... 1 V (1.1 V when in error state)										
2	Parameter and scaling	No analog output (select 'AAA' if only digital output is wished)								A	A	A
3	for analog output	Td/f with warmed probe default*	0... +100 °C (+32... +212 °F)	B	B	B						
4	channels 1, 2, 3	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)	Scale: _____	J	J	J						
		T (between -100... +200 °C, metric)	Scale: _____	K	K	K						
		Td/f (between -120... +212 °F, non-metric)	Scale: _____	L	L	L						
		T (between -148... 392 °F, non-metric)	Scale: _____	M	M	M						
	For moisture in oil	Water activity (aw)	0... 1	R	R	R						
	For moisture in oil	Relative saturation (% RS)	0... 100 % RS	S	S	S						
	Mineral transformer oil only	PPM _{weight}	0...100 ppm	T	T	T						
	CUSTOMER FREE SCALE	PPM _{volume}	Scale: _____ (0... 10 ⁷ ppm)	X	X	X						
		Mixing ratio (x)	Scale: _____ (0... 10 ³ g/kg)	Y	Y	Y						
		Absolute humidity	Scale: _____ (0... 10 ³ g/m ³)	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 ₂ O ₂ 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		
Selections in bold are included in the prices of the basic versions.										TOTAL		
Selections in italic are available at an extra price.										QTY		
										TOTAL VALUE		

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 Selections in italic are available at an extra price.

Example of order code with typical settings for RH&T measurement: **HMM170 2 E G A 1 A 1 A**

Example of order code with typical settings for dew point measurement: **HMM170 2 C C C 1 A 1 A**

Example of order code with typical settings for moisture in oil measurement: **HMM170 2 J K L 1 D 4 A**

End customer: _____

Accessories:

- 219690 USB cable for PC connection
- 219980 HM70 Hand-held connection cable
- HMP247CG Feedthrough
- SWG12NPT12 Swagelok NPT 1/2" 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