VAISALA



HMM170 Order Form
G010048EN-A
Valid from February 2024

HMM170
Humidity Module

					CH1	CH2	CH3				
					1	2	3	4	5	6	7	8
	Humidity Module			**HMM170**								**A**
hardware	1 Output signals		**RS485 Digital Output Only (Modbus RTU / RS485 in use)**		**1**							
			4... 20 mA (3.6 mA when in error state)		**2**							
			4... 20 mA (21 mA when in error state)		**3**							
			0... 20 mA (21 mA when in error state)		**4**							
			0... 10 V (10.3 V when in error state)		**5**							
			0... 5 V (5.5 V when in error state)		**6**							
			1... 5 V (5.5 V when in error state)		**7**							
			0... 1 V (1.1 V when in error state)		**8**							
settings	2 Parameter and scaling for analog output CH1		**No Analog Outputs**			**A**	**A**	**A**				
	3 Parameter and scaling for analog output CH2		**Warmed probe: Td/f scale 0... +100 °C (32... +212 °F)** [1]			**B**	**B**	**B**				
	4 Parameter and scaling for analog output CH3		**Warmed probe: Td/f with scale -20...+100 °C (-4...+212 °F)** [1]			**C**	**C**	**C**				
			Dewpoint/Frostpoint (Td/f) 0... +100 °C (32... +212 °F)			**D**	**D**	**D**				
			Relative Humidity (RH) 0... 100 % RH			**E**	**E**	**E**				
			T 0... +180 °C			**F**	**F**	**F**				
			T -70... +180 °C			**G**	**G**	**G**				
			T 0... +100 °C			**H**	**H**	**H**				
		•	*Warmed probe: special Td/f scale °C, please specify (-80 ...+100 °C)* [1]*:*	_____		*J*	*J*	*J*				
		•	*T special °C scale, please specify (-100... +200 °C):*	_____		*K*	*K*	*K*				
		•	*Warmed probe: special Td/f scale °F, please specify (-120... +212 °F)* [1]*:*	_____		*L*	*L*	*L*				
		•	*T special °F scale, please specify(-148... 392°F):*	_____		*M*	*M*	*M*				
			Water Activity (aw) 0... 1			**R**	**R**	**R**				
			Relative Saturation (%RS) 0... 100 % RS			**S**	**S**	**S**				
			Mineral transformer oil 0 ... 100 ppm			**T**	**T**	**T**				
		•	*Special PPM volume scale, please specify (0 ... 10^7 ppm):*	_____		*X*	*X*	*X*				
		•	*Special Mixing Ratio scale, please specify (0 ... 1000 g/kg):*	_____		*Y*	*Y*	*Y*				
		•	*Special Absolute Humidity scale, please specify (0 .. 1000 g/m^3):*	_____		*Z*	*Z*	*Z*				
hardware	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	+	**Standard sensor, startup purge on, 24 h interval purge on**							**A**		
			Standard sensor, startup purge on, interval purge off							**B**		
			Standard sensor, no purge							**C**		
			Moisture in oil sensor							**D**		
			H2O2-tolerant sensor, startup purge on, 24h interval purge on							**E**		
			H2O2-tolerant sensor, startup purge on, interval purge off							**F**		
			H2O2-tolerant sensor, no purge							**G**		
	7 Sensor protection	+	**PPS grid with Sst net**	*DRW010281SP*							**1**	
			Sintered Filter AISI 316L	*HM47280SP*							**2**	
			Porous PTFE Filter	*219452SP*							**3**	
			Steel grid for vacuum application	*HM47453SP*							**4**	**A**

1) When warmed probe is enabled, only dew/frost point (Td/f) output is possible. This preventserroneous RH and T outputs. Probe warming can be manually set on/off afterwards.

Note:		**Selections in bold are included in the prices of the basic versions.**
	+	Default / Recommended selection
	•	*Selections in italic are available at an extra price.*

Links:
User Guide
Datasheet
Vaisala.com product page

Example of order code with typical settings:

	1	2	3	4	5	6	7	8
HMM170 for RH/T measurement	**2**	**E**	**G**	**A**	**1**	**A**	**1**	**A**
HMM170 for dew point measurement	**2**	**C**	**C**	**C**	**1**	**A**	**1**	**A**
HMM170 for moisture in oil measurement	**2**	**J**	**K**	**L**	**1**	**D**	**4**	**A**

Accessories and spare parts	**Part Number**
Duct Installation Kit For 12mm Probe	210697
Sintered PTFE Filter	219452SP
USB Service Cable M8-4F, RS485	219690
MI70 Connection Cable with M8-4F Connector	219980SP
Probe Mounting Clamps (10 pcs) Probe Ø12	226067
Metal Coated PPS Grid Filter with Stainless Steel Mesh, Female Thread	DRW010281SP
Sintered Stainless Steel Filter, Female Thread	HM47280SP
Stainless Steel Filter	HM47453SP
Cable Gland M20x1.5 with Split Seal	HMP247CG
Swagelok for 12mm Probe 1/2" ISO Thread	SWG12ISO12
Swagelok for 12mm Probe 1/2" NPT Thread	SWG12NPT12