Order form Purchaser Valid from May 2019 Order no

## Vaisala HUMICAP® Humidity and Temperature Module HMM170

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RS485 digital output only (Modbus F		1		_	+	H	111102
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/ PPM <sub>weight</sub>	0100 ppm	Т	Т	т			
PPM volume	7		,	$\mathbf{v}$			
' ' 'v' volume	Scale: (0 10 <sup>7</sup> ppm)	X	X	^ I	- 1	l I	
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		Y	Y	Υ			
Mixing ratio (x) Absolute humidity obe is enabled, only dew/frost point (* d T outputs. Probe warming can be m	Scale: (0 10 <sup>3</sup> g/kg) Scale: (0 10 <sup>3</sup> g/kg) Td/f) output is possible. This preveranually set on/off afterwards.	Y Z	Y	Υ			
Mixing ratio (x) Absolute humidity  obe is enabled, only dew/frost point (* d T outputs. Probe warming can be m  Stainless steel probe with 2 m / 6.5 f	Scale:(0 10 <sup>3</sup> g/kg) Scale:(0 10 <sup>3</sup> g/m³) Td/f) output is possible. This preveranually set on/off afterwards.	Y Z	Y	YZ	1		
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Mixing ratio (x) Absolute humidity  obe is enabled, only dew/frost point (* d T outputs. Probe warming can be m  Stainless steel probe with 2 m / 6.5 f Stainless steel probe with 5 m / 16.4 ft Stainless steel probe with 10 m / 32.8 i  Purge on every start-up and after ev Purge on every start-up only No purge (manual purge is still possibl Moisture in oil sensor  H <sub>2</sub> O <sub>2</sub> tolerant sensor with start-up and PPS with stainless steel filter with 38 Sintered PTFE filter with 20 um pore Stainless steel filter for moisture in	Scale:	Y Z  2 nts  R2C  R2C  R2C  R2C  R2C  R2C  R2C  R2	Y Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Y Z Z SSP)	A B C D	2 3 4	A
	4 20 mÅ (3.6 mÅ when in error state) 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) 0 5 V (5.5 V when in error state) 1 5 V (5.5 V when in error state) 1 5 V (5.5 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.1 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V (1.5 V when in error state) 1 10 V wh	RS485 digital output only (Modbus RTU / RS485 in use) 4 20 mA (3.6 mA when in error state) 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) 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) No analog output (select 'AAA' if only digital output is wished) Td/f with warmed probe default* 0 +100 °C (+32 +212 °F) Dewpoint/frostpoint (Td/f) output Relative Humidity (RH) 0 +100 °C (-43 +212 °F) 0 100 °R H  T 0 +180 °C (+32 +212 °F) T 0 +180 °C (+32 +356 °F) T 0 +180 °C (+32 +356 °F) T 0 +100 °C (+32 +212 °F)  Td/f (between -80 +100 °C, metric) T (between -100 +200 °C, metric) T (between -120 +212 °F, non-metric) T (between -148 392 °F, non-metric) T (between -148 392 °F, non-metric) If (Relative saturation (% RS) V PPM_weight 0 100 °R RS 0 100 °R RS 0 100 ppm	RS485 digital output only (Modbus RTU / RS485 in use)   1	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   5   5   5   5   5   5   5   5   5	RS485 digital output only (Modbus RTU / RS485 in use)	RS485 digital output only (Modbus RTU / RS485 in use)	RS485 digital output only (Modbus RTU / RS485 in use)

Example of order code with typical settings for RH&T measurement: Example of order code with typical settings for dew point measurement: Example of order code with typical settings for moisture in oil measurement:

:	HMM170	2	Ε	G	Α	1	Α	1	Α
	HMM170								
:	HMM170	2	J	K	L	1	D	4	Α

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