











## HMT317 Humidity and Temperature Transmitter with warmed probe

For dewpoint measurement at high humidities

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE
Vaisala HUMICAP® Humidity and Temperature Transmitter		<b>HMT310</b>	<b>C</b>	<b>A</b>				<b>A</b>											
1	Transmitter type	<i>HMT317</i> <i>Fuel cell model with extended heating</i>	7																
2	Parameters	<i>Td+Td+x</i>	C																
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)	5 6																
4	Power supply	24 VDC		A															
5	Analog output signal	Analog output channel (Ch1&Ch2) 4... 20 mA & RS232C Analog output channel (Ch1&Ch2) 0... 20 mA & RS232C Analog output channel (Ch1&Ch2) 1... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 10 V & RS232C																	
6	Analog output parameters	No analog outputs						A	A										
7	for Ch1 and Ch2	Td (-40...100°C) (-40...212°F) TdF (-40...100°C) (-40...212°F) x (0...500 g/kg d.a) (0...3500 gr/lb)						N	N	P	P	R	R	X	X				
SPECIAL:		Parameters CH1: _____ CH2: _____																	
NOTE:		Scale for parameters CH1: _____ CH2: _____																	
- Choose A for both channels when you don't use analog outputs		Ch1 Ch2																	
8	No temperature output									A									
9	Output units	Metric Non-metric																	
10	Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector																	
11	Operating manual language	No manual English German Japanese																	
		see latest manuals online: www.vaisala.com/hmt310																	
12	Probe cable length	with 2 m cable with 5 m cable with 10 m cable																	
13	Humidity sensor type	Chemical purge Start-up purge only No purge Catalytic humicap sensor with chemical purge																	
14	Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter Membrane SST filter																	
15	No additional temperature probe																		
16	Installation kit	No kit Duct installation kit ISO 3/8 Swagelok® connector NPT 1/2" Swagelok® connector Cable gland Agro, M20x1.5																	
17	Calibration certificate	No certificate At room temperature																	
		standard service calibration: 216989																	
																		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.

**Options and accessories:**

- 238607 USB Service cable
- ASM211103-A Rain Shield
- 231865 Vaporized hydrogen peroxide (VHP) filter

Example of order code with typical settings:

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>HMT310</b>		<b>1</b>	<b>A</b>	<b>5</b>	<b>A</b>	<b>1</b>	<b>B</b>	<b>C</b>	<b>C</b>	<b>1</b>	<b>4</b>	<b>B</b>	<b>P</b>	<b>F</b>	<b>A</b>	<b>1</b>	<b>A</b>	<b>2</b>

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



## HMT310 Humidity and Temperature Transmitter series All models

Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT310	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE	
1	Transmitter type	Wall mount transmitter Probe for general use Probe for pressurized processes Probe for high temperatures Probe for high humidities Probe with extended heating for fuel cells Probe for pressurized pipelines	1 3 4 5 7 F 8																		
2	Parameters	RH+T RH+T+Td+Td+Td+a+x+Tw+ppm+pw+pws+h Td+Td+xx with warmed RH probe	A B C																		
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)	5 6																		
4	Power supply	24 VDC	A																		
5	Analog output signal	Analog output channel (Ch1&Ch2) 4... 20 mA & RS232C Analog output channel (Ch1&Ch2) 0... 20 mA & RS232C Analog output channel (Ch1&Ch2) 1... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 10 V & RS232C	1 2 J 4 5																		
6	Analog output parameters	No analog outputs	A																		
7	for Ch1 and Ch2	RH (0... 100%RH) all probes Temperature (choose T range below) all probes Td (-40...+60 °C) (-40...+140 °F) for HMP301 probe Td (-40...+60 °C) (-40...+140 °F) for HMP301 probe a (0...160 g/m3) (0...69.9 gr/ft3) for HMP301 probe x (0...160 g/kg d.a) (0...1120 gr/lb) for HMP301 probe Tw (0...+60 °C) (+32...+140 °F) for HMP301 probe ppm (0...5000) all probes pw (0...1000 hPa) (0...14.5 psi) all probes pws (0...1000 hPa) (0...14.5 psi) all probes h (-40...+1500 kJ/kg) (-9.5...+652.6 Btu/lb) all probes Td (-40...+100 °C) (-40...+212 °F) HMP303/304/305/306/307/308 Td (-40...+100 °C) (-40...+212 °F) HMP303/304/305/306/307/308 a (0...500 g/m3) (0...218.5 gr/ft3) HMP303/304/305/306/307/308 x (0...500 g/kg d.a) (0...3500 gr/lb) HMP303/304/305/306/307/308 Tw (0...+100 °C) (+32...+212 °F) HMP303/304/305/306/307/308	B C D E F G H J K L M N P Q R S																		
	SPECIAL:	Parameters CH1: _____ CH2: _____	X	X																	
	NOTE:	Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs	Ch1 Ch2																		
8	Analog output range for temperature	No range -60...+60 °C (-76...+140 °F) -40...+60 °C (-40...+140 °F) -40...+120 °C (-40...+248 °F) -40...+180 °C (-40...+356 °F) -20...+60 °C (-4...+140 °F) -20...+80 °C (-4...+176 °F) -20...+120 °C (-4...+248 °F) 0...+60 °C (+32...+140 °F) 0...+100 °C (+32...+ 212 °F) 0...+120 °C (+32...+248 °F) special range : _____ °C/°F	A B C D E F G H J K M X																		
9	Output units	Metric Non-metric	1 2																		
10	Cable connector	8-pole connector with 5m cable spare 5 m cable: 212142 8-pole connector with 10 m cable spare 10 m cable: 210964SP 8-pole counter connector	4 7 5																		
11	Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310	A B C D																		
12	Probe type	HMP301 HMP303 with 2 m cable, +80 °C with 5 m cable, +80 °C with 10 m cable, +80 °C with 2 m cable, +120 °C with 5 m cable, +120 °C with 10 m cable, +120 °C HMP304 with 2 m cable with 5 m cable with 10 m cable HMP305 with 2 m cable with 5 m cable with 10 m cable HMP307 with 10 m cable with 2 m cable with 5 m cable with 10 m cable HMP308 with 2 m cable 178 mm probe with 5 m cable 178 mm probe with 10 m cable 178 mm probe with 2 m cable 400 mm probe with 5 m cable 400 mm probe with 10 m cable 400 mm probe	A B C D 5 6 7 E F G H J K P Q R S T U V W Z																		
13	Humidity sensor type	General purpose HUMICAP180R Chemical purge HUMICAP180RC Warmed probe with chemical purge HUMICAP180RC HMT317 Warmed probe with start-up purge only HUMICAP180RC HMT317 Catalytic humicap sensor HUMICAP180VHP Catalytic humicap sensor with chemical purge HUMICAP180VHPC Warmed probe without purge HUMICAP180RC HMT317 fuel cells (F mode)	A D F G J K E																		
14	Sensor protection	PPS plastic grid & stainless steel netting recommended for HMP303 and HMP307 PPS plastic grid recommended for HMP301 Sintered stainless steel filter recommended for HMP304/305/308 Membrane SST filter recommended for HMT317 F. fuel cell applications	A B C G																		
15	No additional temperature probe																				
16	Installation kit	No kit Duct installation kit for HMP303 and HMP307 Mounting flange for HMP305 Ball valve set for HMP308 ISO 3/8 Swagelok® connector for HMP307 NPT 1/2" Swagelok® connector for HMP307 Cable gland Agro, M20x1.5 for HMP303 and HMP307 Fitting body M22 x 1.5 FOR HMP304 Fitting body NPT 1/2" for HMP304 Pressure fitting ISO1/2" FOR HMP308 Pressure fitting NPT1/2" for HMP308	A B D E G H J K L M N																		
17	Calibration certificate	No certificate At room temperature	1 2																		

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

TOTAL  
QTY  
TOTAL VALUE

Options and accessories:

238607 USB Service cable  
ASM211103-A Rain Shield  
231865 Vaporized hydrogen peroxide (VHP) filter

Example of order code with typical settings:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
HMT310 1 A S A 1 B C C 1 4 B A A A 1 A 2

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