

HMT331 Humidity and Temperature Transmitter
For wall mounting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter																							
HMT330 1 0																							
1 Transmitter type HMT331 1																							
2 Wall probe fixed with short cable Probe holder plate recommended in selection 16 A 8																							
3 No additional temperature probe RH+T+Td+Td+a+x+Tw+ppm+pw+pws+h+dT B 0																							
4 Parameters No display 0																							
5 Display Graphical display with keypad 1																							
6 Power supply 10...35 VDC, 24 VAC 0																							
10...35 VDC, 24 VAC with galvanic isolation 1																							
Universal AC-power (100...240 VAC) 2																							
Universal AC-power (100...240 VAC) + US power cord 3																							
Universal AC-power (100...240 VAC) + EUR power cord 4																							
Universal AC-power (100...240 VAC) + UK power cord 5																							
Universal AC-power (100...240 VAC) + AUS power cord 6																							
External US AC adapter (for LAN/WLAN interface in USA and Canada) Not IP65 9																							
7 Signal output Analog output channel (Ch1&Ch2&Ch3) 4... 20 mA 1																							
Analog output channel (Ch1&Ch2&Ch3) 0... 20 mA 2																							
- Ch1&Ch2 are mandatory Analog output channel (Ch1&Ch2&Ch3) 0... 1 V 3																							
- Ch3 is optional Analog output channel (Ch1&Ch2&Ch3) 0... 5 V 4																							
Analog output channel (Ch1&Ch2&Ch3) 0... 10 V 5																							
+ Serial interface RS232 or optional communication module																							
8 Analog output signals No 3rd analog output A																							
9 for Ch1, Ch2 and Ch3 RH (0...100%RH) B																							
T (range: see below) C																							
Td (-20...100 °C) (-4...+212 °F) D																							
Td (-20...100 °C) (-4...+212 °F) E																							
a (0...600g/m3) (0...262 gr/ft3) F																							
Tw (0...100 °C) (+32...+212 °F) G																							
x (0...500g/kg d.a) (0...3500gr/lb) H																							
h (-40...1500 kJ/kg) (-9.5...+652.6 Btu/lb) J																							
ppm (0...5000) (0...5000) K																							
pw (0...1000 hPa) (0...14.5psi) L																							
pws (0...1000 hPa) (0...14.5psi) M																							
dT (-10...+50 °C) (14...+122 °F) N																							
SPECIAL Define quantity Ch1: Ch2: Ch3: X X X																							
Define scale Ch1: Ch2: Ch3: Channel 1 Channel 2 Channel 3, choose A if not needed																							
11 Analog output range No temperature output A																							
for temperature -40...+60 °C (-40...+140 °F) B																							
Note: -20...+60 °C (-4...+140 °F) C																							
- Choose option A, if no 0...+60 °C (+32...+140 °F) F																							
T output is desired Special: X																							
12 Output units Metric 1																							
Non-metric 2																							
13 Option for module slot 1 No module 0																							
Relay output 1																							
RS-485 serial interface (galvanically isolated) 2																							
LAN (Ethernet) interface + 2 m cable (RJ45) Please see note *) below 4																							
WLAN (Wireless Ethernet) interface + antenna With short cable probe only 5																							
Data logger module 6																							
14 Option for module slot 2 No module 0																							
Relay output 1																							
3rd Analog output Choose also analog output signal for Ch3 3																							
Data logger module Not possible if the data logger module has already been chosen in item 13 6																							
15 Cable bushings Cable gland M20 x 1.5 A																							
Conduit fitting NPT1/2" B																							
Note: The Universal AC power not connected through 8-pole connector! 8-pole connector with 5 m cable spare cable: 212142 8-pole counter connector equipped with screw terminals spare connector: 212416 Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2") 8																							
16 Transmitter installation Normal mounting 0																							
Wall mounting item: 214829 1																							
Pole installation kit item: 215108 2																							
Pole installation kit with rain shield item: 215109 3																							
DIN rail kit item: 215094 4																							
Probe holder plate Recommended with short cable probe 5																							
17 Humidity sensor type General purpose and high chemical concentrations HUMICAP180R spare: HUMICAP180R A																							
with chemical purge function HUMICAP180RC spare: HUMICAP180RC C																							
Catalytic humicap sensor with chemical purge HUMICAP180VC spare: HUMICAP180VC K																							
18 Sensor protection PPS plastic grid & stainless steel netting spare: DRW010261SP A																							
PPS plastic grid spare: DRW010276SP B																							
Sintered stainless steel filter spare: HM47280SP C																							
19 No probe installation kit A																							
20 Operating manual No manual A																							
language English B																							
German C																							
French D																							
Finnish E																							
Swedish F																							
Spanish G																							
pdf user's guides available at: Japanese K																							
www.vaisala.com/hmt330 Russian V																							
Chinese																							
21 PC Accessories No A																							
Service cable for PC, RS232 (D9 female connector) item: 19446ZZ B																							
M70LINK software for Windows® with RS232 service cable item: 215005 C																							
Service cable for PC, USB item: 219685 D																							
M70LINK software for Windows® with USB service cable item: 219916 E																							
22 Calibration ISO9001 compliant factory calibration service item for calibration: RHCALSTD A																							
Special calibration see separate order form X																							
23 Additional maintenance No maintenance and repair contract 1																							
TOTAL																							
QTY																							
TOTAL VALUE																							

*) Note! Simultaneous installation of LAN and Universal AC-power is possible only with a short cable probe.

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:

HMT330 1 A 0 B 1 0 1 B C A B 1 0 0 A 1 A A A B A A 1

End customer:

For general use

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:

HMT330	3	E	0	B	1	0	1	B	C	A	F	1	0	0	A	0	A	A	A	B	A	A	1
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

End customer:

HMT334 Humidity and Temperature Transmitter
For pressurized processes

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT334																						
1 Transmitter type		HMT334																						
2 Cable length		2 m cable																						
		5 m cable																						
		10 m cable																						
3 No additional temperature probe		0																						
4 Parameters		RH-T-Td-Tdf+a+x+Tw+ppm+pw+pws+h+dT																						
5 Display		No display																						
		Graphical display with keypad																						
6 Power supply		10...35 VDC, 24 VAC																						
		10...35 VDC, 24 VAC with galvanic isolation																						
		Universal AC-power (100...240 VAC)																						
		Universal AC-power (100...240 VAC) + US power cord																						
		Universal AC-power (100...240 VAC) + EUR power cord																						
		Universal AC-power (100...240 VAC) + UK power cord																						
		Universal AC-power (100...240 VAC) + AUS power cord																						
		External US AC-adaptor (for LAN/WLAN interface in USA and Canada)																						
7 Signal output		Analog output channel (Ch1&Ch2&Ch3)																						
		Analog output channel (Ch1&Ch2&Ch3)																						
		Analog output channel (Ch1&Ch2&Ch3)																						
		Analog output channel (Ch1&Ch2&Ch3)																						
		Analog output channel (Ch1&Ch2&Ch3)																						
		Serial interface RS232 or optional communication module																						
8 Analog output signals		No 3rd analog output																						
9 for Ch1, Ch2 and Ch3		RH																						
		(0... 100%RH)																						
		T																						
		(range: see below)																						
		Td (-20...100 °C)																						
		Td (-20...100 °C)																						
		a (0...600g/m3)																						
		Tw (0...100 °C)																						
		x (0...500g/kg d.a)																						
		h (-40...1500 kJ/kg)																						
		ppm (0...5000)																						
		pw (0...1000 hPa)																						
		pws (0...1000 hPa)																						
		dT (-10...+50 °C)																						
SPECIAL Define quantity		Ch1: Ch2: Optional Ch3:																						
Define scale		Ch1: Ch2: Optional Ch3:																						
		Channel 1																						
		Channel 2																						
		Channel 3, choose A, if not needed																						
11 Analog output range for temperature		No temperature output																						
		-40...+60 °C																						
		-40...+80 °C																						
		-40...+120 °C																						
		-40...+180 °C																						
		-20...+60 °C																						
		-20...+80 °C																						
		-20...+120 °C																						
		-20...+180 °C																						
		0...+60 °C																						
		0...+100 °C																						
		0...+120 °C																						
		0...+180 °C																						
		-60...+60 °C																						
		Special																						
12 Output units		Metric																						
		Non-metric																						
13 Option for module slot 1		No module																						
		Relay output																						
		RS-485 serial interface (galvanically isolated)																						
		LAN (Ethernet) interface + 2 m cable (RJ45)																						
		Data logger module																						
14 Option for module slot 2		No module																						
		Relay output																						
		3rd Analog output																						
		Data logger module																						
15 Cable bushings		Cable gland M20 x 1.5																						
		Conduit fitting NPT1/2"																						
		8-pole connector with 5m cable																						
		8-pole counter connector equipped with screw terminals																						
		Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																						
16 Transmitter installation		Normal mounting																						
		Wall mounting plate																						
		Pole installation kit																						
		Pole installation kit with rain shield																						
		DIN rail kit																						
17 Humidity sensor type		General purpose and high chemical concentrations																						
		with chemical purge function																						
		Catalytic humicap sensor with chemical purge																						
18 Sensor protection		PPS plastic grid & stainless steel netting																						
		PPS plastic grid																						
		Sintered stainless steel filter																						
		Stainless steel grid																						
19 Installation kit for probe		Fitting body M22 x 1,5																						
		Fitting body NPT 1/2"																						
20 Operating manual language		No manual																						
		English																						
		German																						
		French																						
		Finnish																						
		Swedish																						
		Spanish																						
		Japanese																						
		Russian																						
		Chinese																						
21 PC Accessories		No																						
		Service cable for PC, RS232 (D9 female connector)																						
		M70LINK software for Windows® with RS232 service cable																						
		Service cable for PC, USB																						
		M70LINK software for Windows® with USB service cable																						
22 Calibration		ISO9001 compliant factory calibration																						
		Special calibration																						
23 Additional maintenance		No maintenance and repair contract																						

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:

HMT334|4|H|0|A|1|0|1|B|C|A|L|1|0|0|A|0|A|A|E|B|A|A|1

End customer:

HMT335 Humidity and Temperature Transmitter
For high temperatures

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT330		5	0																				1 PRICE
1 Transmitter type	HMT335																								
2 Cable length	2 m cable																								
	5 m cable																								
	10 m cable																								
	15 m cable																								
3 No additional temperature probe																									
4 Parameters	RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT																								
5 Display	No display																								
	Graphical display with keypad																								
6 Power supply	10...35 VDC, 24 VAC																								
	10...35 VDC, 24 VAC with galvanic isolation																								
	Universal AC-power (100...240 VAC)																								
	Universal AC-power (100...240 VAC) + US power cord																								
	Universal AC-power (100...240 VAC) + EUR power cord																								
	Universal AC-power (100...240 VAC) + UK power cord																								
	Universal AC-power (100...240 VAC) + AUS power cord																								
	External US AC-adaptor (for LAN/WLAN interface in USA and Canada)																								
7 Signal output	Analog output channel (Ch1&Ch2&Ch3)																								
	Analog output channel (Ch1&Ch2&Ch3)																								
- Ch1&Ch2 are mandatory	Analog output channel (Ch1&Ch2&Ch3)																								
- Ch3 is optional	Analog output channel (Ch1&Ch2&Ch3)																								
	Analog output channel (Ch1&Ch2&Ch3)																								
	+ Serial interface RS232 or optional communication module																								
8 Analog output signals	No 3rd analog output																								
9 for Ch1, Ch2 and Ch3	RH																								
	T																								
	Td (-20...100 °C)																								
	Tdf (-20...100 °C)																								
	a (0...600g/m3)																								
	Tw (0...100 °C)																								
	x (0...500g/kg d.a)																								
	h (-40...1500 kJ/kg)																								
	ppm (0...5000)																								
	pw (0...1000 hPa)																								
	pws (0...1000 hPa)																								
	dT (-10...+50 °C)																								
SPECIAL Define quantity	Ch1:																								
Define scale	Ch1:																								
	Ch2:																								
	Optional Ch3:																								
	Channel 1																								
	Channel 2																								
	Channel 3, choose A, if not needed																								
11 Analog output range for temperature	No temperature output																								
	-40...+60 °C																								
	-40...+80 °C																								
	-40...+120 °C																								
	-40...+180 °C																								
	-20...+60 °C																								
	-20...+80 °C																								
	-20...+120 °C																								
	-20...+180 °C																								
	0...+60 °C																								
	0...+100 °C																								
	0...+120 °C																								
	0...+180 °C																								
	-60...60 °C																								
	Special																								
	:																								
12 Output units	Metric																								
	Non-metric																								
13 Option for module slot 1	No module																								
	Relay output																								
	RS-485 serial interface (galvanically isolated)																								
	LAN (Ethernet) interface + 2 m cable (RJ45)																								
	Data logger module																								
14 Option for module slot 2	No module																								
	Relay output																								
	3rd Analog output																								
	Data logger module																								
	Choose also analog output signal for Ch3																								
	Not possible if the data logger module has already been chosen in item 13																								
15 Cable bushings	Cable gland M20 x 1.5																								
Note: The Universal AC power not connected through 8-pole connector!	Conduit fitting NPT1/2"																								
	8-pole connector with 5m cable																								
	8-pole counter connector equipped with screw terminals																								
	Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																								
16 Transmitter installation	Normal mounting																								
	Wall mounting plate																								
	Pole installation kit																								
	Pole installation kit with rain shield																								
	DiN rail kit																								
17 Humidity sensor type	General purpose and high chemical concentrations																								
	with chemical purge function																								
	Catalytic humicap sensor with chemical purge																								
18 Sensor protection	PPS plastic grid & stainless steel netting																								
	PPS plastic grid																								
	Sintered stainless steel filter																								
	Stainless steel grid																								
19 Installation kit for probe	No kit																								
	Mounting flange																								
20 Operating manual language	No manual																								
	English																								
	German																								
	French																								
	Finnish																								
	Swedish																								
	Spanish																								
	Japanese																								
	Russian																								
	Chinese																								
21 PC Accessories	No																								

HMT337 Humidity and Temperature Transmitter

For high humidities

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT330	7	0																				1
1 Transmitter type		HMT337	7																					
2 Cable length		2 m cable	S																					
		5 m cable	T																					
		10 m cable	U																					
		20 m cable	R																					
3 Additional temperature probe		No probe	0																					
4 Parameters		RH+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT	B																					
5 Display		No display	0																					
		Graphical display with keypad	1																					
6 Power supply		10...35 VDC , 24 VAC	0																					
		10...35 VDC, 24 VAC with galvanic isolation	1																					
		Universal AC-power (100...240 VAC)	2																					
		Universal AC-power (100...240 VAC) + US power cord	3																					
		Universal AC-power (100...240 VAC) + EUR power cord	4																					
		Universal AC-power (100...240 VAC) + UK power cord	5																					
		Universal AC-power (100...240 VAC) + AUS power cord	6																					
		External US AC-adaptor (for LAN/WLAN interface in USA and Canada)	9																					
7 Signal output		Analog output channel (Ch1&Ch2&Ch3)	4... 20 mA	1																				
		Analog output channel (Ch1&Ch2&Ch3)	0... 20 mA	2																				
		Analog output channel (Ch1&Ch2&Ch3)	0... 1 V	3																				
		Analog output channel (Ch1&Ch2&Ch3)	0... 5 V	4																				
		Analog output channel (Ch1&Ch2&Ch3)	0... 10 V	5																				
		+ Serial interface RS232 or optional communication module																						
8 Analog output signals		No 3rd analog output																						
9 for Ch1 , Ch2 and Ch3		RH (0... 100%RH)	B	B	B																			
		T (range : see below)	C	C	C																			
		Td (-20...100 °C)	D	D	D																			
		Tdf (-20...100 °C)	E	E	E																			
		a (0...600g/m3)	F	F	F																			
		Tw (0...100 °C)	G	G	G																			
		x (0...500g/kg d.a)	H	H	H																			
		h (-40...1500 kJ/kg)	J	J	J																			
		ppm (0...5000)	K	K	K																			
		pw (0...1000 hPa)	L	L	L																			
		pws (0...1000 hPa)	M	M	M																			
		dT (-10...+50 °C)	N	N	N																			
		Ch1: _____ Ch2: _____ Optional Ch3: _____	X	X	X																			
		Ch1: _____ Ch2: _____ Optional Ch3: _____																						
		Channel 1																						
		Channel 2																						
		Channel 3, choose A, if not needed																						
11 Analog output range for temperature		No temperature output	A																					
		-40...+60 °C (-40...+140 °F)	B																					
		-40...+80 °C (-40...+176 °F)	C																					
		-40...+120 °C (-40...+248 °F)	D																					
		-40...+180 °C (-40...+356 °F)	E																					
		-20...+60 °C (-4...+140 °F)	F																					
		-20...+80 °C (-4...+176 °F)	G																					
		-20...+120 °C (-4...+248 °F)	H																					
		-20...+180 °C (-4...+356 °F)	J																					
		0...+60 °C (+32...+140 °F)	K																					
		0...+100 °C (+32...+ 212 °F)	L																					
		0...+120 °C (+32...248 °F)	M																					
		0...+180 °C (+32...356 °F)	N																					
		-60...60 °C (-76...+140 °F)	P																					
		Special	X																					
		:																						
12 Output units		Metric	1																					
		Non-metric	2																					
13 Option for module slot 1		No module	0																					
		Relay output	1																					
		RS-485 serial interface (galvanically isolated)	2																					
		LAN (Ethernet) interface + 2 m cable (RJ45)	4																					
		Data logger module	6																					
14 Option for module slot 2		No module	0																					
		Relay output	1																					
		3rd Analog output Choose also analog output signal for Ch3	3																					
		Data logger module Not possible if the data logger module has already been chosen in item 13	6																					
15 Cable bushings		Cable gland M20 x 1.5	A																					
		Note: The Universal	B																					
		AC power not connected	C																					
		8-pole counter connector equipped with screw terminals	D																					
		Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")	G																					
16 Transmitter installation		Normal mounting	0																					
		Wall mounting plate	1																					
		Pole installation kit	2																					
		Pole installation kit with rain shield	3																					
		DIN rail kit	4																					
17 Humidity sensor type		General purpose and high chemical concentrations	HUMICAP180R																					
		with chemical purge function	HUMICAP180RC																					
		Catalytic humicap sensor with chemical purge	HUMICAP180VC																					
18 Sensor protection		PPS plastic grid & stainless steel netting	spare: DRW010281SP																					
		PPS plastic grid	spare: DRW010276SP																					
		Sintered stainless steel filter	spare: HM47280SP																					
		Stainless steel grid	spare: HM47453SP																					
19 Installation kit for probe		No kit	A																					
		Duct installation kit	C																					
		Cable gland AGRO	D																					
		Swagelok NPT 1/2"	K																					
		Swagelok ISO 3/8"	L																					
		Swagelok ISO 1/2"	Y																					
20 Operating manual language		No manual	A																					
		English	B																					
		German	C																					
		French	D																					
		Finnish	E																					
		Swedish	F																					
		Spanish	G																					
		Japanese	J																					
		Russian	K																					
		Chinese	V																					
21 PC Accessories		No	A																					
		Service cable for PC, RS232 (D9 female connector)	B																					

HMT337 Humidity and Temperature Transmitter with warmed probe

For high humidities

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT330		7																				1
1 Transmitter type	HMT337																							
2 Cable length (dew point probe)	2 m cable 5 m cable 10 m cable 20 m cable																							
3 Additional temperature probe	No probe 2 m cable 5 m cable 10 m cable 20 m cable NOTE: select to measure RH and T																							
4 Parameters	Td+Td+T+pw RH+T+Td+Td+a+x+Tw+ppm+pw+pws+h+dT (dew point probe only) (with additional T probe)																							
5 Display	No display Graphical display with keypad																							
6 Power supply	10...35 VDC, 24 VAC 10...35 VDC, 24 VAC with galvanic isolation Universal AC-power (100...240 VAC) Universal AC-power (100...240 VAC) + US power cord Universal AC-power (100...240 VAC) + EUR power cord Universal AC-power (100...240 VAC) + UK power cord Universal AC-power (100...240 VAC) + AUS power cord External US AC-adaptor (for LAN/WLAN interface in USA and Canada) Not IP65																							
7 Signal output	Analog output channel (Ch1&Ch2&Ch3) Analog output channel (Ch1&Ch2&Ch3) - Ch1&Ch2 are mandatory - Ch3 is optional + Serial interface RS232 or optional communication module																							
8 Analog output signals 9 for Ch1, Ch2 and Ch3	RH T (ref. to parameters selection above) Td (-20...100 °C) Td (-20...100 °C) a (0...600g/m3) Tw (0...100 °C) x (0...500g/kg d.a.) h (-40...1500 kJ/kg) ppm (0...5000) pw (0...1000 hPa) pws (0...1000 hPa) dT (0...+50 °C) SPECIAL Define quantity Ch1: _____ Ch2: _____ Optional Ch3: _____ Ch1: _____ Ch2: _____ Optional Ch3: _____ Channel 1 Channel 2 Channel 3, choose A, if not needed																							
11 Analog output range for temperature	No temperature output -40...+60 °C (-40...+140 °F) -40...+80 °C (-40...+176 °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) -20...+180 °C (-4...+356 °F) 0...+60 °C (+32...+140 °F) 0...+100 °C (+32...+212 °F) 0...+120 °C (+32...248 °F) 0...+180 °C (+32...356 °F) -60...60 °C (-76...+140 °F) Special : _____																							
12 Output units	Metric Non-metric																							
13 Option for module slot 1	No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) Data logger module																							
14 Option for module slot 2	No module Relay output 3rd Analog output Choose also analog output signal for Ch3 Data logger module Not possible if the data logger module has already been chosen in item 13																							
15 Cable bushings	Note: The Universal AC power not connected through 6-pole connector! Cable gland M20 x 1.5 Conduit fitting NPT1/2" 8-pole connector with 5m cable spare cable: 212142 8-pole counter connector equipped with screw terminals spare connector: 212416 Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																							
16 Transmitter installation	Normal mounting Wall mounting plate item: 214829 Pole installation kit item: 215108 Pole installation kit with rain shield item: 215109 DIN rail kit item: 215094																							
17 Humidity sensor type	Chemical tolerant composite sensor HUMICAP180RC spare: HUMICAP180RC Composite sensor with chemical purge HUMICAP180RC spare: HUMICAP180RC Composite sensor for fuel cell applications HUMICAP180RC spare: HUMICAP180RC Heated catalytic humicap sensor with chemical purge HUMICAP180VC spare: HUMICAP180VC																							
18 Sensor protection	PPS plastic grid & stainless steel netting spare: DRW010281SP Sintered stainless steel filter spare: HM47280SP Stainless steel grid spare: HM47453SP Membrane SST filter for fuel cell applications spare: 214848SP																							
19 Installation kit for probe	No kit Duct installation kit (for RH probe) item: 210697 Swagelok NPT 1/2" item: SWG12NPT12 Swagelok ISO 3/8" item: SWG12ISO38 Duct installation kit (RH + T probes) item: 210697+215003 Swagelok NPT 1/2" + Swagelok NPT 1/8" (RH+T) item: SWG12NPT12+SWG12NPT18 Swagelok ISO 3/8" + Swagelok ISO 1/8" (RH+T) item: SWG12ISO38+SWG12ISO18 Swagelok ISO 1/2" item: SWG12ISO12 Splash/direct water protector for warmed RH&T and T probes HMT330WPA																							
20 Operating manual language	No manual English German French Finnish Swedish Spanish pdf user's guides available at: www.vaisala.com/hmt330 Japanese Russian Chinese																							
21 PC Accessories	No Service cable for PC, RS232 (D9 female connector) item: 19446ZZ M70LINK software for Windows® with RS232 service cable item: 215005 Service cable for PC, USB item: 219686 M70LINK software for Windows® with USB service cable item: 219916																							
22 Calibration	ISO9001 compliant factory calibration Special calibration service item for calibration: RHCALSTD see separate order form																							
23 Additional maintenance	No maintenance and repair contract																							
TOTAL																							1	
QTY																								
TOTAL VALUE																								

Selections in bold are included in the prices of the basic versions.

Selections in *italics* are available at an extra price.

Example of order code with typical settings:

HMT330|7|S|I|D|I|0|I|B|C|A|B|I|0|0|A|0|D|A|A|B|A|A|I

End customer:

HMT338 Humidity and Temperature Transmitter

For pressurized pipelines

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT338																						
1 Transmitter type		HMT338																						
2 Cable length		2 m cable for 232 mm probe 5 m cable for 232 mm probe 10 m cable for 232 mm probe 2 m cable for 454 mm probe 5 m cable for 454 mm probe 10 m cable for 454 mm probe 20 m cable for 454 mm probe																						
3 No additional temperature probe		0																						
4 Parameters		RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT																						
5 Display		No display Graphical display with keypad																						
6 Power supply		10...35 VDC, 24 VAC 10...35 VDC, 24 VAC with galvanic isolation Universal AC-power (100...240 VAC) Universal AC-power (100...240 VAC) + US power cord Universal AC-power (100...240 VAC) + EUR power cord Universal AC-power (100...240 VAC) + UK power cord Universal AC-power (100...240 VAC) + AUS power cord External US AC-adaptor (for LAN/WLAN interface in USA and Canada) Not IP65																						
7 Signal output		Analog output channel (Ch1&Ch2&Ch3) 4... 20 mA Analog output channel (Ch1&Ch2&Ch3) 0... 20 mA Analog output channel (Ch1&Ch2&Ch3) 0... 1 V Analog output channel (Ch1&Ch2&Ch3) 0... 5 V Analog output channel (Ch1&Ch2&Ch3) 0... 10 V + Serial interface RS232 or optional communication module																						
8 Analog output signals		No 3rd analog output RH (0... 100%RH) T (range: see below) Td (-20...100 °C) (-4...+212 °F) Tdf (-20...100 °C) (-4...+212 °F) a (0...600g/m3) (0...262 gr/ft3) Tw (0...100 °C) (+32...+212 °F) x (0...500g/kg d.a) (0...3500gr/lb) h (-40...1500 kJ/kg) (-9.5...+652.6 Btu/lb) ppm (0...5000) (0...5000) pw (0...1000 hPa) (0...14.5psi) pws (0...1000 hPa) (0...14.5psi) dT (-10...+50 °C) (14...+122 °F) Ch1: Ch2: Optional Ch3: Ch1: Ch2: Optional Ch3: Channel 1 Channel 2 Channel 3, choose A, if not needed																						
9 for Ch1, Ch2 and Ch3		A B C D E F G H J K L M N P X																						
10		A B C D E F G H J K L M N P X																						
11 Analog output range for temperature		No temperature output -40...+60 °C (-40...+140 °F) -40...+80 °C (-40...+176 °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) -20...+180 °C (-4...+356 °F) 0...+60 °C (+32...+140 °F) 0...+100 °C (+32...+212 °F) 0...+120 °C (+32...+248 °F) 0...+180 °C (+32...+356 °F) -60...60 °C (-76...+140 °F) Special :																						
12 Output units		Metric Non-metric																						
13 Option for module slot 1		No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) Data logger module																						
14 Option for module slot 2		No module Relay output 3rd Analog output Choose also analog output signal for Ch3 Data logger module Not possible if the data logger module has already been chosen in item 13																						
15 Cable bushings		Cable gland M20 x 1.5 Conduit fitting NPT1/2" Note: The Universal AC power not connected through 8-pole connector! 8-pole connector with 5m cable spare cable: 212142 8-pole counter connector equipped with screw terminals spare connector: 212416 Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																						
16 Transmitter installation		Normal mounting Wall mounting plate item: 214829 Pole installation kit item: 215108 Pole installation kit with rain shield item: 215109 DIN rail kit item: 215094																						
17 Humidity sensor type		General purpose and high chemical concentrations HUMICAP180R spare: HUMICAP180R with chemical purge function HUMICAP180RC spare: HUMICAP180RC Catalytic humicap sensor with chemical purge HUMICAP180VC spare: HUMICAP180VC																						
18 Sensor protection		PPS plastic grid & stainless steel netting spare: DRW010281SP PPS plastic grid spare: DRW010276SP Sintered stainless steel filter spare: HM47280SP Stainless steel grid spare: HM47453SP Ball valve set (ISO 1/2") item: BALLVALVE-1 Pressure fitting NPT 1/2" Pressure fitting ISO 1/2"																						
19 Installation kit for probe		M N V																						
20 Operating manual language		No manual English German French Finnish Swedish Spanish pdf user's guides available at: www.vaisala.com/hmt338 Japanese Russian Chinese																						
21 PC Accessories		No Service cable for PC, RS232 (D9 female connector) item: 19446ZZ M70LINK software for Windows® with RS232 service cable item: 215005 Service cable for PC, USB item: 219685 M70LINK software for Windows® with USB service cable item: 219916																						
22 Calibration		ISO9001 compliant factory calibration service item for calibration: 216989 Special calibration see separate order form																						
23 Additional maintenance		No maintenance and repair contract																						

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:

HMT338 8 V 0 B 1 0 1 B C A B 1 0 0 A 0 A A B A A 1

End customer: