

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		HMT331	1	0																				PRICE
1 Transmitter type	HMT331	1																						
2 Wall probe	fixed with short cable <i>Probe holder plate recommended in selection 16</i>	A	8																					
3 No additional temperature probe		0																						
4 Parameters	RH-T-Td+a+x+Tw+ppm+pw+pws+h+dT	B																						
5 Display	No display <i>Graphical display with keypad</i>	0	1																					
6 Power supply	10...35 VDC, 24 VAC 10...35 VDC, 24 VAC with galvanic isolation <i>Universal AC-power (100...240 VAC)</i> <i>Universal AC-power (100...240 VAC) + US power cord</i> <i>Universal AC-power (100...240 VAC) + EUR power cord</i> <i>Universal AC-power (100...240 VAC) + UK power cord</i> <i>Universal AC-power (100...240 VAC) + AUS power cord</i> <i>External US AC adapter (for LAN/WLAN interface in USA and Canada)</i> <i>Not IP65</i>	0	1	2	3	4	5	6	9															
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) Analog output channel (Ch1&Ch2&Ch3) Analog output channel (Ch1&Ch2&Ch3) + Serial interface RS232 or optional communication module	1	2	3	4	5																		
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) pw (0...1000 hPa) (0...14.5psi) pws (0...1000 hPa) (0...14.5psi) dT (-10...+50 °C) (14...+122 °F)																							
9 for Ch1, Ch2 and Ch3																								
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...+140 °F) Note: -20...+60 °C (-4...+140 °F) - Choose option A, if no T output is desired Special :																							
12 Output units	Metric Non-metric	1	2																					
13 Option for module slot 1	No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) <i>Please see note *) below</i> WLAN (Wireless Ethernet) interface + antenna <i>With short cable probe only</i> Data logger module	0	1	2	4	5	6																	
14 Option for module slot 2	No module Relay output 3rd Analog output <i>Choose also analog output signal for Ch3</i> Data logger module <i>Not possible if the data logger module has already been chosen in item 13</i>	0	1	3	6																			
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 5 m cable <i>spare cable: 212142</i> 8-pole counter connector equipped with screw terminals <i>spare connector: 212416</i> Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																							
16 Transmitter installation	Normal mounting <i>Wall mounting plate</i> <i>item: 214829</i> <i>Pole installation kit</i> <i>item: 215108</i> <i>Pole installation kit with rain shield</i> <i>item: 215109</i> <i>DIN rail kit</i> <i>item: 215094</i> <i>Probe holder plate</i> <i>Recommended with short cable probe</i>	0	1	2	3	4	5																	
17 Humidity sensor type	General purpose and high chemical concentrations HUMICAP180R <i>spare: HUMICAP180R</i> <i>with chemical purge function</i> HUMICAP180RC <i>spare: HUMICAP180RC</i> <i>Catalytic humicap sensor with chemical purge</i> HUMICAP180VC <i>spare: HUMICAP180VC</i>																							
18 Sensor protection	PPS plastic grid & stainless steel netting <i>spare: DRW010281SP</i> PPS plastic grid <i>spare: DRW010276SP</i> Sintered stainless steel filter <i>spare: HM47280SP</i>																							
19 No probe installation kit																								
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 <i>Service cable for PC, RS232 (D9 female connector)</i> <i>item: 19446ZZ</i> <i>MIT70LINK software for Windows® with RS232 service cable</i> <i>item: 215005</i> <i>Service cable for PC, USB</i> <i>item: 219685</i> <i>MIT70LINK software for Windows® with USB service cable</i> <i>item: 219916</i>																							
22 Calibration	ISO9001 compliant factory calibration <i>service item for calibration: RHCALSTD</i> <i>Special calibration</i> <i>see separate order form</i>																							
23 Additional maintenance	No maintenance and repair contract																							

*) 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: _____

TOTAL QTY
TOTAL VALUE

HMT333 Humidity and Temperature Transmitter

For general use

		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																						0
1 Transmitter type	HMT333	3																						
2 Cable length	2 m cable, +80 °C	E																						
	5 m cable, +80 °C	F																						
	10 m cable, +80 °C	G																						
	20 m cable, +80 °C	O																						
	2 m cable, +120 °C	4																						
	5 m cable, +120 °C	5																						
	10 m cable, +120 °C	6																						
3 No additional temperature probe		0																						
4 Parameters	RH+T+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																						
	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	A																						
9 for Ch1, Ch2 and Ch3	RH	B B B																						
	T	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																						
SPECIAL	Define quantity Ch1: _____ Ch2: _____ Optional Ch3: _____	X X X																						
	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	A																						
	-40...+60 °C (-40...+140 °F)	B																						
	-40...+80 °C (-40...+176 °F)	C																						
	-40...+120 °C (-40...+248 °F)	D																						
	-20...+60 °C (-4...+140 °F)	E																						
	-20...+80 °C (-4...+176 °F)	F																						
	-20...+120 °C (-4...+248 °F)	G																						
	0...+60 °C (+32...+140 °F)	H																						
	0...+100 °C (+32...+212 °F)	I																						
	0...+120 °C (+32...248 °F)	J																						
	special : _____	K																						
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																						
	WLAN (Wireless Ethernet) interface + antenna	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																						
	8-pole connector with 5m cable	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	A																						
	PPS plastic grid	B																						
	Sintered stainless steel filter	C																						
19 Installation kit for probe	No kit	A																						
	Duct installation kit	C																						
	Cable gland AGRO M20 x 1.5 with split seal	D																						
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																						
	MI70LINK software for Windows® with RS232 service cable	C																						
	Service cable for PC, USB	D																						
	MI70LINK software for Windows® with USB service cable	E																						
22 Calibration	ISO9001 compliant factory calibration	A																						
	Special calibration	X																						
23 Additional maintenance	No maintenance and repair contract	1																						
TOTAL																								
QTY																								
TOTAL VALUE																								

Selections in bold are included in the prices of the basic versions.
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Example of order code with typical settings:

HMT330 3 E 0 B 1 0 1 B C A F 1 0 0 0 A 0 A A 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																						0
1 Transmitter type	HMT335	5																						
2 Cable length	2 m cable 5 m cable 10 m cable 15 m cable	L M N P																						
3 No additional temperature probe		0																						
4 Parameters	RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT	B																						
5 Display	No display Graphical display with keypad	0 1																						
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	0 1 2 3 4 5 6 9																						
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	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V 1 2 3 4 5																						
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)	0... 100%RH (range: see below) (-4...+212 °F) (-4...+212 °F) (0...262 gr/lb) (+32...+212 °F) (0...3500gr/lb) (-9.5...+652.6 Btu/lb) (0...5000) (0...14.5psi) (0...14.5psi) (14...+122 °F)																						
SPECIAL	Define quantity Define scale	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...+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	(-40...+140 °F) (-40...+176 °F) (-40...+248 °F) (-40...+356 °F) (-4...+140 °F) (-4...+176 °F) (-4...+248 °F) (-4...+356 °F) (+32...+140 °F) (+32...+212 °F) (+32...248 °F) (+32...356 °F) (-76...+140 °F) :																						
12 Output units	Metric Non-metric	1 2																						
13 Option for module slot 1	No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) WLAN (Wireless Ethernet) interface + antenna Data logger module	0 1 2 4 5 6																						
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	0 1 3 6																						
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 Bushings Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")	A B C D G																						
16 Transmitter installation	Normal mounting Wall mounting plate Pole installation kit Pole installation kit with rain shield DIN rail kit	0 1 2 3 4																						
17 Humidity sensor type	General purpose and high chemical concentrations with chemical purge function Catalytic humicap sensor with chemical purge	HUMICAP180R HUMICAP180RC HUMICAP180VC spare: HUMICAP180R spare: HUMICAP180RC spare: HUMICAP180VC																						
18 Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter Stainless steel grid	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP spare: HM47453SP																						
19 Installation kit for probe	No kit Mounting flange	A G																						
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	A B C D E F G J K V																						
21 PC Accessories	No Service cable for PC, RS232 (D9 female connector) M170L INK software for Windows® with RS232 service cable Service cable for PC, USB M170L INK software for Windows® with USB service cable	A B C D E																						
22 Calibration	ISO9001 compliant factory calibration Special calibration	A X service item for calibration: RHCALSTD see separate order form																						
23 Additional maintenance	No maintenance and repair contract	1																						
		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.

Example of order code with typical settings:

HMT330 5 L 0 B 1 0 1 B C A B 1 0 0 A 0 A A A B A A 1

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	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+T+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) 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	B																				
		T (range : see below)																						C	C																				
		Td (-20...+100 °C) (-4...+212 °F)																						D	D																				
		Tdf (-20...+100 °C) (-4...+212 °F)																						E	E																				
		a (0...600g/m3) (0...282 gr/lb)																						F	F																				
		Tw (0...+100 °C) (+32...+212 °F)																						G	G																				
		x (0...500g/kg d.a) (0...3500gr/lb)																						H	H																				
		h (-40...+1500 kJ/kg) (-9.5...+652.6 Btu/lb)																						J	J																				
		ppm (0...5000)																						K	K																				
		pw (0...1000 hPa) (0...14.5psi)																						L	L																				
		pws (0...1000 hPa) (0...14.5psi)																						M	M																				
		dT (-10...+50 °C) (14...+122 °F)																						N	N																				
	SPECIAL Define quantity	Ch1: _____ Ch2: _____ Optional Ch3: _____																						X	X																				
	Define scale	Ch1: _____ Ch2: _____ Optional Ch3: _____																						X	X																				
		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																					
	Note:	-40...+180 °C (-40...+356 °F)																						E																					
	- Choose option A, if no	-20...+60 °C (-4...+140 °F)																						F																					
	T output is desired	-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																					
		WLAN (Wireless Ethernet) interface + antenna																						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																					
	Note: The Universal	Conduit fitting NPT1/2"																						B																					
	AC power not connected	8-pole connector with 5m cable																						C																					
	through 8-pole connector	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																					
		DNV rail kit																						4																					
17	Humidity sensor type	General purpose and high chemical concentrations																						HUMICAP180R	A																				
		with chemical purge function																						HUMICAP180RC	C																				
		Catalytic humicap sensor with chemical purge																						HUMICAP180VC	K																				
18	Sensor protection	PPS plastic grid & stainless steel netting																						spare: DRW010281SP	A																				
		PPS plastic grid																						spare: DRW010276SP	B																				
		Sintered stainless steel filter																						spare: HM47280SP	C																				
		Stainless steel grid																						spare: HM47453SP	D																				
19	Installation kit for probe	No kit																						A																					
		Duct installation kit																						item: 210697	C																				
		Cable gland AGRO																						item: HMP247CG	D																				
		Swagelok NPT 1/2"																						item: SWG12NPT12	K																				
		Swagelok ISO 3/8"																						item: SWG12ISO38	L																				
		Swagelok ISO 1/2"																						item: SWG12ISO12	Y																				
20	Operating manual language	No manual																						A																					
		English																						B																					
		German																						C																					
		French																						D																					
		Finnish																						E																					
		Swedish																						F																					
		Spanish																						G																					
	pdf user's guides available at:	Japanese																						J																					
	www.vaisala.com/hmt330	Russian																						K																					
		Chinese																						V																					
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: 216989	A																				
		Special calibration																						see separate order form	X																				
23	Additional maintenance	No maintenance and repair contract																						1																					

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.

Example of order code with typical settings:

HMT330 | 7 | S | 0 | B | 1 | 0 | 1 | B | C | A | B | 1 | 0 | 0 | A | 0 | A | A | B | A | A | 1

End customer:

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	PRICE
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT330 7																							
1 Transmitter type	HMT337																								
2 Cable length (dew point probe)	2 m cable 5 m cable 10 m cable 20 m cable	S	T	U	R																				
3 Additional temperature probe	No probe 2 m cable 5 m cable NOTE: select to measure RH and T 10 m cable 20 m cable	0	1	2	3	7																			
4 Parameters	Td+Td+T+pw (dew point probe only) RH+T+Td+Td+a+x+Tw+ppm+pw+pws+h+dT (with additional T probe)	C	D																						
5 Display	No display Graphical display with keypad	0	1																						
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 adapter (for LAN/WLAN interface in USA and Canada) Not IP65	0	1	2	3	4	5	6	9																
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	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V	1	2	3	4	5																		
8 Analog output signals for Ch1, Ch2 and Ch3	No 3rd analog output RH 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 Define scale	(0... 100%RH) (range: see below) (-4...+212 °F) (-4...+212 °F) (0...262 gr/l13) (+32...+212 °F) (0...3500gr/lb) (-9.5...+652.6 Btu/lb) (0...5000) (0...14.5psia) (0...14.5psia) (14...+122 °F)	B C D E F G H J K L M N X	B C D E F G H J K L M N X	B C D E F G H J K L M N X																				
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	(-40...+140 F) (-40...+176 F) (-40...+248 F) (-40...+356 F) (-4...+140 F) (-4...+176 F) (-4...+248 F) (-4...+356 F) (+32...+140 F) (+32...+212 F) (+32...248 F) (+32...356 F) (-76...+140 F)	A B C D E F G H J K L M N P X																						
12 Output units	Metric Non-metric	1	2																						
13 Option for module slot 1	No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) WLAN (Wireless Ethernet) interface + antenna Data logger module	0	1	2	4	5	6																		
14 Option for module slot 2	No module Relay output 3rd Analog output Data logger module	0	1	3	6																				
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 8-pole counter connector equipped with screw terminals Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")	212142 212416	A B D G																						
16 Transmitter installation	Normal mounting Wall mounting plate Pole installation kit Pole installation kit with rain shield DIN rail kit	item: 214829 item: 215108 item: 215109 item: 215094	0 1 2 3 4																						
17 Humidity sensor type	Chemical tolerant composite sensor Composite sensor with chemical purge Composite sensor for fuel cell applications Heated catalytic humicap sensor with chemical purge	HUMICAP180RC HUMICAP180RC HUMICAP180RC HUMICAP180VC	spare: HUMICAP180RC spare: HUMICAP180RC spare: HUMICAP180RC spare: HUMICAP180VC	D E F L																					
18 Sensor protection	PPS plastic grid & stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications	spare: DWG10281SP spare: HM47280SP spare: HM47453SP spare: 214848SP	A C D F																						
19 Installation kit for probe	No kit Duct installation kit (for RH probe) Swagelok NPT 1/2" Swagelok ISO 3/8" Duct installation kit (RH + T probes) Swagelok NPT 1/2" + Swagelok NPT 1/8" (RH+T) Swagelok ISO 3/8" + Swagelok ISO 1/8" (RH+T) Swagelok ISO 1/2" Splash direct water protector for warmed RH&T and T probes	item: 210697 item: SWG12NPT12 item: SWG12ISO38 item: 210697+215003 item: SWG12NPT12+SWG12NPT18 item: SWG12ISO38+SWG12ISO18 item: SWG12ISO12 HMT330WPA	A C K L P O Q R Y																						
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	A B C D E F G J K V																							
21 PC Accessories	No Service cable for PC, RS232 (D9 female connector) MITOLINK software for Windows® with RS232 service cable Service cable for PC, USB MITOLINK software for Windows® with USB service cable	item: 19446ZZ item: 215005 item: 219685 item: 219916	A B C D E																						
22 Calibration	ISO9001 compliant factory calibration Special calibration	service item for calibration: RHCALSTD see separate order form	A X																						
23 Additional maintenance	No maintenance and repair contract																								
TOTAL																									
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** | **1** | **D** | **1** | **0** | **1** | **B** | **C** | **A** | **B** | **1** | **0** | **0** | **A** | **0** | **D** | **A** | **B** | **A** | **A** | **1**

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	8	0																				1
1	Transmitter type	HMT338	8																					
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	V W X 1 2 3 9																					
3	No additional temperature probe		0																					
4	Parameters	RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT	B																					
5	Display	No display Graphical display with keypad	0 1																					
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	0 1 2 3 4 5 6 9																					
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	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V	1 2 3 4 5																				
8	Analog output signals for Ch1, Ch2 and Ch3	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/lb) 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)		A B B C C D D E E E F F F G G G H H H J J J K K K L L L M M M N N N P X																				
9	SPECIAL	Define quantity 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...+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 : _____		A B B C C D D E E F F G H H J K K L L M N N P X																				
12	Output units	Metric Non-metric		1 2																				
13	Option for module slot 1	No module Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) WLAN (Wireless Ethernet) interface + antenna Data logger module		0 1 2 4 5 6																				
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		0 1 3 6																				
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")		A B C D G																				
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		0 1 2 3 4																				
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		A C D K																				
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: HM47433SP		A B C D																				
19	Installation kit for probe	Ball valve set (ISO 1/2") item: BALLVALVE-1 Pressure fitting NPT 1/2" Pressure fitting ISO 1/2"		M N V																				
20	Operating manual language	No manual English German French Finnish Swedish Spanish Japanese Russian Chinese		A B C D E F G J K V																				
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		A B C D E																				
22	Calibration	ISO9001 compliant factory calibration service item for calibration: 216989 Special calibration see separate order form		A X																				
23	Additional maintenance	No maintenance and repair contract		1																				

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.

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: _____