

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 Transmitter type																							
HMT331																							
2 Wall probe																							
fixed																							
with short cable																							
Probe holder plate recommended in selection 16																							
3 No additional temperature probe																							
RH-T																							
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 adapter (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																							
9 for Ch1, Ch2 and Ch3																							
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)																							
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																							
0...+60 °C																							
(+32...+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)																							
Please see note *) below																							
WLAN (Wireless Ethernet) interface + antenna																							
With short cable probe only																							
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 5 m 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																							
Probe holder plate																							
Recommended with short cable probe																							
17 Humidity sensor type																							
General purpose and high chemical concentrations																							
HUMICAP180R																							
with chemical purge function																							
HUMICAP180RC																							
General purpose																							
HUMICAP180																							
with chemical purge function																							
HUMICAP180C																							
Catalytic humicap sensor with chemical purge																							
HUMICAP180VC																							
18 Sensor protection																							
PPS plastic grid & stainless steel netting																							
PPS plastic grid																							
Sintered stainless steel filter																							
19 No probe installation kit																							
20 Operating manual language																							
No manual																							
English																							
German																							
French																							
Finnish																							
Swedish																							
pdf user's guides available at:																							
www.vaisala.com/hmt330																							
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																							
22 Calibration																							
ISO9001 compliant factory calibration																							
ISO9001 extended temperature range calibration (-20 °C, 0 °C, +60 °C)																							
Special calibration																							
23 Additional maintenance																							
No maintenance and repair contract																							

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 A 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	A	1	0	1	B	C	A	F	1	0	0	A	0	A	A	A	B	A	A	1
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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	1
		PRICE																							
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 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																							
9 for Ch1, Ch2 and Ch3		RH (0... 100%RH) T (range: see below) Td (-20...+100 °C) (-4...+212 °F) Tdf (-20...+100 °C) (-4...+212 °F) a (0...500g/m3) (0...252 grift3) 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)																							
SPECIAL Define quantity		Ch1: Ch2: Optional Ch3:																							
Define scale		Ch1: Ch2: Optional Ch3:																							
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) WLAN (Wireless Ethernet) interface + antenna 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 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")																							
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 General purpose 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 pdf user's guides available at: www.vaisala.com/hmt334																							
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 ISO9001 extended temperature range calibration (-20 °C, 0 °C, +60 °C) Special calibration																							
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 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 | 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		HMT335																						
1 Transmitter type		HMT335																						
2 Cable length		2 m cable 5 m cable 10 m cable 15 m cable																						
3 No additional temperature probe		0																						
4 Parameters		RH+T 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) 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 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 Define scale																						
9 for Ch1, Ch2 and Ch3		Optional Ch3: 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) WLAN (Wireless Ethernet) interface + antenna 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 General purpose 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 Japanese Russian																						
21 PC Accessories		No Service cable for PC, RS232 (D9 female connector) MIT70LINK software for Windows® with RS232 service cable Service cable for PC, USB MIT70LINK software for Windows® with USB service cable																						
22 Calibration		ISO9001 compliant factory calibration ISO9001 extended temperature range calibration (-20 °C, 0 °C, +60 °C) 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:

HMT335 | S | L | 0 | A | 1 | 0 | 1 | B | C | A | B | 1 | 0 | 0 | A | 0 | A | A | B | A | A | 1

End customer:

For high humidities

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	A	1	0	1	B	C	A	B	1	0	0	A	0	A	A	A	B	A	A	1
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End customer:

For high humidities

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	1	D	1	0	1	B	C	A	B	1	0	0	A	0	D	A	A	B	A	A	1
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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		HMT330	8	0																				
1 Transmitter type		HMT338	8																					
2 Cable length		2 m cable for 232 mm probe	V																					
		5 m cable for 232 mm probe	W																					
		10 m cable for 232 mm probe	X																					
		2 m cable for 454 mm probe	1																					
		5 m cable for 454 mm probe	2																					
		10 m cable for 454 mm probe	3																					
		20 m cable for 454 mm probe	9																					
3 No additional temperature probe			0																					
4 Parameters		RH+T	A																					
		RH+T+Td+Td+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																				
		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)																					
		T	(range: see below)																					
		Td (-20...100 °C)	(-4...+212 °F)																					
		Td (-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)																					
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		No temperature output																						
for temperature		-40...+60 °C	(-40...+140 °F)																					
		-40...+80 °C	(-40...+176 °F)																					
Note:		-40...+120 °C	(-40...+248 °F)																					
- Choose option A, if no		-40...+180 °C	(-40...+356 °F)																					
T output is desired		-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		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	1																				
		Data logger module	Not possible if the data logger module has already been chosen in item 13	2																				
15 Cable bushings		Cable gland M20 x 1.5																						
		Conduit fitting NPT1/2"																						
Note: The Universal		8-pole connector with 5m cable	spare cable: 212142																					
AC power not connected		8-pole counter connector equipped with screw terminals	spare connector: 212416																					
through 8-pole connector!		Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2")																						
16 Transmitter installation		Normal mounting		0																				
		Wall mounting plate	item: 214829	1																				
		Pole installation kit	item: 215108	2																				
		Pole installation kit with rain shield	item: 215109	3																				
		DIN rail kit	item: 215094	4																				
17 Humidity sensor type		General purpose and high chemical concentrations	HUMICAP180R																					
		with chemical purge function	HUMICAP180RC																					
		General purpose	HUMICAP180																					
		with chemical purge function	HUMICAP180C																					
		Catalytic humicap sensor with chemical purge	HUMICAP180VC																					
18 Sensor protection		PPS plastic grid & stainless steel netting																						
		PPS plastic grid																						
		Sintered stainless steel filter																						
		Stainless steel grid																						
19 Installation kit		Ball valve set (ISO 1/2")	item: BALLVALVE-1																					
for probe		Pressure fitting NPT 1/2"																						
		Pressure fitting ISO 1/2"																						
20 Operating manual		No manual																						
language		English																						
		German																						
		French																						
		Finnish																						
		Swedish																						
		pdf user's guides available at:																						