HMT330 Series Humidity and Temperature Transmitters

For Demanding Humidity Measurement



Features

- Full 0 ... 100 %RH measurement, temperature range up to +180 °C (+356 °F) depending on model
- Pressure tolerance up to 100 bar depending on model
- 4th generation Vaisala HUMICAP® sensor for superior accuracy and stability
- Corrosion-resistant IP65/IP66 housing
- Excellent performance in harsh conditions; good chemical tolerance
- Traceable calibration for measurement and analog outputs (certificates included)
- 10-year warranty when annually calibrated at the Vaisala Service Center

Vaisala HMT330 Series HUMICAP® Humidity and Temperature Transmitters are designed for demanding industrial applications where stable measurements and extensive customization are essential. With multiple options to choose from, the instrument can be tailored to meet the specific needs of each individual application and is pre-configured for each delivery.

Proven Vaisala HUMICAP Performance

The HMT330 series incorporates Vaisala's 40 years of experience in industrial humidity measurement. The updated fourth-generation HUMICAP® sensor provides accurate and stable measurement even in environments with high humidity or chemical contaminants.

Wide Range of Installation Options

The wide variety of measurement probes, several installation accessories, and universal mains and DC power options make the instruments easy to install in various locations and kinds of environment; walls, poles, pipelines, and

ducts, for example. The input/output cable can be fed through the back of the transmitter, which is a useful feature, especially for cleanroom installations.

The HMT330 series includes six models:

- HMT331 for wall-mounted applications
- HMT333 for ducts and tight spaces
- HMT334 for high-pressure and vacuum applications
- HMT335 for high-temperature applications
- HMT337 for high-humidity applications
- HMT338 for pressurized pipelines

With multiple options to choose from, including local display, the HMT330 series can be tailored to meet the specific needs of each individual

application and is preconfigured for each delivery. Also the HUMICAP® sensor itself can be selected according to specific measurement application needs.

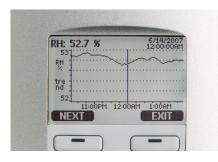
Connectivity

- RS-232/485/422 LAN
- Modbus protocol support (RTU/ TCP)
- Optional graphical display and keypad for convenient operation
- Multilingual user interface
- Compatible with Vaisala viewLinc software

HMT330 Series Humidity and Temperature Transmitters

Graphical Display of Measurement Data and Trends for Convenient Operation

The HMT330 series features an optional numerical and graphical display with a multilingual menu and keypad. It allows users to easily monitor operational data, measurement trends, and access measurement history of up to 4 years.



The display shows measurement trends and over four years of real-time measurement history.

The display alarm allows any measured parameter to be tracked, with freely configurable low and high limits.

Versatile Outputs and Data Collection

The HMT330 can support up to three analog outputs; an isolated galvanic power supply and up to four relay outputs are also available.

For serial interface the USB service cable, RS-232, and RS-485/422 can be used.

HMT330 is also capable of applying the Modbus communication protocol and, together with an appropriate connection option, provides either Modbus RTU (RS-485) or Modbus TCP/IP (Ethernet) communication.

The data logger, with real-time clock and battery backup, guarantees reliable logging of measurement data for over four years. The recorded data can be viewed on the local display or transferred to a PC with Microsoft Windows® software. The transmitter can also be connected to a network with an optional LAN interface, which enables an Ethernet connection. A USB service cable makes it easy to connect the HMT330 to a PC via the service port.

Flexible Calibration

The HMT330 instruments are calibrated at five humidity points at the factory and come with a calibration certificate that meets all the relevant traceability and compliance requirements.

A quick, one-point field calibration can be performed with the handheld HM70 meter. A two-point field calibration can be performed, for example, with the HMK15 salt bath calibrator in a controlled environment. The transmitter can also be sent to Vaisala for recalibration, and accredited ISO/IEC17025 calibrations and special calibrations are available.

Chemical Purge Minimizes Effects of Contaminant

In environments with high concentrations of chemicals and cleaning agents, the chemical purge option helps to maintain measurement accuracy between calibration intervals.

The chemical purge involves heating the sensor to remove harmful chemicals. The function can be initiated manually or programmed to occur at set intervals.

	HMT331	HMT333	HMT334	HMT335	HMT337	НМТ338
For	Measurement within rooms	General purposes	High pressure and vacuum applications	High temperatures	High humidity applications	Pressurized pipelines
Temperature Measurement Range	-40 +60 °C (-40 +140 °F)	-40 +80 °C (-40 +176 °F) or -40 +120 °C (-40 +248 °F)	-70 +180 °C (-94 +356 °F)	-70 +180 °C (-94 +356 °F)	-70 +180 °C (-94 +356 °F)	-70 +180 °C (-94 +356 °F)
Operating Pressure			0 10 MPa (0 100 bar)		0 1 MPa (0 10 bar)	0 4MPa (0 40 bar)

HMT330 Series Technical Data

Measurement Performance

Relative Humidity

Measurement range	0 100 %RH
Accuracy (including non-linearity, hyste	resis, and repeatability)
at +15 +25 °C (59 +77 °F)	±1 %RH (0 90 %)
	±1.7 %RH (90 100 %RH)
at -20 +40 °C (-4 +104 °F)	±(1.0 + 0.008 x reading) %RH
at -40 +180 °C (-40 +356 °F)	±(1.5 + 0.015 x reading) %RH
Factory calibration uncertainty (+20 °C)	±0.6 %RH (0 40 %RH) ±1.0 %RH (40 97 %RH) (Defined as ±2 standard deviation limits. Small variations possible; see also calibration certificate.)
Response time (90%) at +20 °C (+68 °F) in still air / in 0.1 m/s air flow
	8 s / 17 s with arid filter 1)

8 s / 17 s with grid filter 1)

20 s / 50 s with grid + steel netting

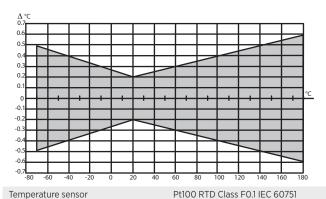
filter¹⁾

40 s / 60 s with sintered filter¹⁾

Temperature

Accuracy at +20 °C (+68 °F) \pm 0.2 °C (\pm 0.36 °F)

Accuracy over temperature range (measurement range depends on model)



Other Available Variables (Model-Dependent)

dew point temperature, mixing ratio, absolute humidity, wet bulb temperature, enthalpy, water vapor pressure $\,$

1) With HUMICAP 180R or 180RC or 180VC sensor

Operating Environment

Operating Temperature

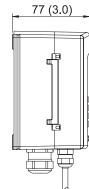
for probe	same as measurement range
for transmitter body	-40 +60 °C (-40 140 °F)
with display	0 +60 °C (32 140 °F)
Storage temperature	-55 +80 °C (-67 176°F)
EMC compliance	EN61326-1, Industrial Environment Note: Transmitter with display test impedance of 40 Ω is used in IEC61000-4-5 (Surge immunity)

Mechanical Specifications

Cable bushing	M20 x 1.5 for cable diameter
	8 11 mm / 0.31 0.43"
Conduit fitting	1/2" NPT
User cable connector (optional)	M12 series 8-pin (male)
option 1	female plug with 5 m (16.4 ft.) black cable
option 2	female plug with screw terminals
Probe Cable Diameter	
HMT333 (+80 °C)	6.0 mm
other probes	5.5 mm
Standard probe cable lengths	2 m, 5 m or 10 m (Additional lengths available, see order forms for details)
Housing material	G-AlSi 10 Mg (DIN1725)
IP rating	IP66 IP65 (NEMA4X) with local display
Weight	1.0 - 3.0 kgs

depending on selected probe, cable and modules

183 (7.20)



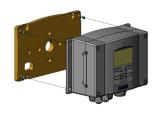
Dimensions in mm (inches)

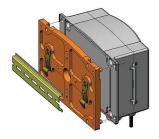
Inputs and Outputs

Operating Voltage	10 35 VDC, 24 VAC ±20%	
with optional power supply module	100 240 VAC, 50/60 HZ	
Power Consumption at +20 °C (U _{in} 24 VDC)		
RS-232	max. 25 mA	
U _{out} 2 x 0 1 V/0 5 V/0 10 V	max. 25 mA	
I _{out} 2 x 0 20 mA	max. 60 mA	
display and backlight	+ 20 mA	
during chemical purge	max. 110 mA	
during probe heating (HMT337)	+ 120 mA	
Analog Outputs (2 standard, 3rd optional)		
current output	0 20 mA, 4 20 mA	
voltage output	0 1 V, 0 5 V, 0 10 V	
Accuracy of analog outputs at +20 °C	±0.05% full scale	
Temperature dependence of the analog outputs	±0.005%/°C full scale	
External loads:		
current outputs	$R_L < 500 \Omega$	
0 1 V output	$R_L > 2 k\Omega$	
0 5 V and 0 10 V outputs	$R_L > 10 \text{ k}\Omega$	
Max. Wire Size	0.5 mm2 (AWG 20)	
	stranded wires recommended	
Digital outputs	RS-232, RS-485 (optional)	
Protocols	ASCII commands, Modbus RTU	
Service Connection	RS-232, USB	
Relay Outputs (Optional)	0.5 A, 250 VAC	
Ethernet Interface (Optional)		
Supported standards	10BASE-T, 100BASE-TX	
Connector	8P8C (RJ45)	
IPv4 address assignment	DHCP (automatic), static	
Protocols	Telnet, Modbus TCP/IP	
Optional Data Logger with Real-Time Clock		
Logged parameters	max. four with trend/min/max values	
Logging interval	10 sec. (fixed)	
Max. logging period with max. temporal resolution	4 years, 5 months	
Logged points	13.7 million points per parameter	
Battery lifetime	min. 5 years	
Display	LCD with backlight, graphical trend display of any parameter	
Menu languages	English, Chinese, Finnish, French, German, Japanese, Russian, Spanish, Swedish	

Mounting Options

Mounting with Wall Mounting Kit (not Mounting with DIN Rail Installation Kit mandatory for wall installations)



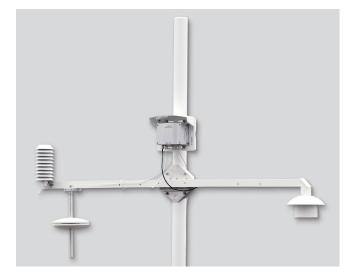


Pole Installation with Installation Kit for Pole or Pipeline

Mounting Rain Shield with Installation







Vaisala Meteorological Installation Kit HMT330MIK enables HMT337 to be installed outdoors to obtain reliable measurements for meteorological purposes

HMT331 Humidity and Temperature Transmitter for Demanding Wall-Mounted Applications



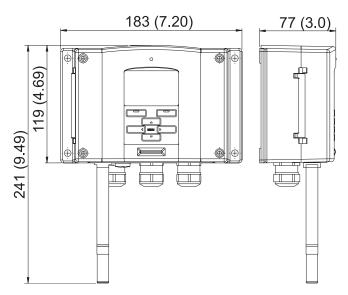
Typical Applications

- Cleanrooms
- Pharmaceutical processes
- Swimming halls
- Data centers
- Archives

Vaisala HUMICAP® Humidity and Temperature Transmitter HMT331 is a high-quality wall-mounted transmitter for demanding HVAC and condition-monitoring applications.

Technical Data

Temperature measurement range $-40 \dots +60 \, ^{\circ}\text{C} \, (-40 \dots +140 \, ^{\circ}\text{F})$







HMT331 with short cable probe

Accessories

USB service port cable with PC software	219916
Connection cable for HM70	211339
Wall-mounting plate (plastic)	214829
Pole installation kit with rain shield	215109
DIN rail installation set	215094
PPS plastic grid filter with stainless steel net	DRW010281SP
Stainless steel sintered filter	HM47280SP

HMT333 Humidity and Temperature Transmitter for Ducts and Tight Spaces

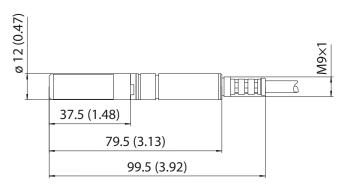


Typical Applications

- Cleanrooms
- · Industrial HVAC systems
- Environmental chambers
- · Processes with moderate temperature and humidity

Technical Data

-40 ... +80 °C (-40 ... +176 °F) or -40 ... +120 °C (-40 ... +248 °F)



Dimensions in mm (inches)

Accessories

Duct installation kit	210697
Cable gland with split seal	HMP247CG
USB service port cable with PC software	219916
Connection cable for HM70	211339
Wall-mounting plate (plastic)	214829
Pole installation kit with rain shield	215109
Solar radiation shield	DTR502B
DIN rail installation set	215094
PPS plastic grid filter with stainless steel net	DRW010281SP
PPS plastic grid filter	DRW010276SP
Stainless steel sintered filter	HM47280SP

Vaisala HUMICAP® Humidity and Temperature Transmitter HMT333 is a versatile instrument for applications where a small remote probe is needed, for example in demanding HVAC applications. Its small thermal mass enables rapid response to temperature changes.

Flexible Installation

To install the probe in ducts, channels, and through walls, an installation kit is available with a stainless steel flange, lead-through piece, and steel support bar.

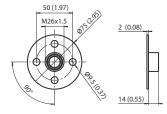
HMT333 has two probe cable options – a flexible rubber cable that withstands temperatures of up to +80 °C, and a durable FEP cable that withstands temperatures of up to +120 °C. Both cable options are available in lengths of 2, 5, and 10 meters. Additionally, flexible rubber cable (+80 °C) is available in 20-meter lengths.

For outdoor environments, the DTR502B solar radiation shield provides protection for the probe. The shield can be installed on a pole, beam, or flat surface.

Duct installation kit for HMT333. The flange allows easy adjustment of probe installation depth.

Installation flange dimensions in mm (inches)





HMT334 Humidity and Temperature Transmitter for High Pressure and Vacuum Applications



Typical Applications

- Test chambers
- High-pressure and vacuum processes

Vaisala HUMICAP® Humidity and Temperature Transmitter HMT334 is designed for humidity measurement in pressurized spaces or vacuum chambers.

Every probe is tested for gas and vacuum-tight installation.

Technical Data

Temperature measurer	ment range	-70 +180 °C (-	94 +356 °F)
Operating pressure		0 10 MPa (0	. 100 bar)
41 (1.61)	120 (4.72) 170 (6	M22X1.5 or NPT 1/2"	

Dimensions in mm (inches)

Accessories

Fitting body NPT 1/2"	17225SP
USB service port cable with PC software	219916
Connection cable for HM70	211339
Wall-mounting plate (plastic)	214829
Pole installation kit with rain shield	215109
DIN rail installation set	215094
PPS plastic grid filter with stainless steel net	DRW010281SP
PPS plastic grid filter	DRW010276SP
Stainless steel sintered filter	HM47280SP
Stainless steel grid filter	HM47453SP
Fitting body ISO M22 x 1.5	17223SP

HMT335 Humidity and Temperature Transmitter for High Temperatures



Typical Applications

- · Hot drying processes
- Food processes, e.g. baking ovens

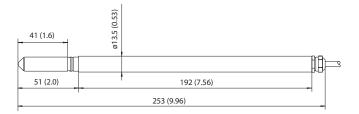
Robust Probe Ideal for High Flow Rates

The Vaisala HUMICAP $^{\otimes}$ Humidity and Temperature Transmitter HMT335 has a long stainless steel probe designed for high temperatures.

With high tolerance for mechanical stress and high flow rates, HMT335 is ideal for duct measurements. The stainless steel installation flange allows easy adjustment of the probe's installation depth. Long, robust probe allows easy installation through insulation in ovens and similar applications.

Technical Data

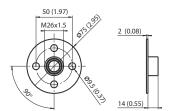
Temperature measurement range $-70 \dots +180 \, ^{\circ}\text{C} \, (-94 \dots +356 \, ^{\circ}\text{F})$



Dimensions in mm (inches)

Accessories

Mounting flange	210696
USB service port cable with PC software	219916
Connection cable for HM70	211339
Wall-mounting plate (plastic)	214829
Pole installation kit with rain shield	215109
DIN rail installation set	215094
PPS plastic grid filter with stainless steel net	DRW010281SP
PPS plastic grid filter	DRW010276SP
Stainless steel sintered filter	HM47280SP
Stainless steel grid filter	HM47453SP



Installation flange dimensions in mm (inches)



Flange installation kit for HMT335

HMT337 Humidity and Temperature Transmitter for High Humidity Applications



Typical Applications

- Professional meteorology
- · Intake air monitoring of engines and gas turbines
- · Timber drying kilns

HMT337 Configurations

Vaisala HUMICAP® Humidity and Temperature Transmitter HMT337 is ideal for the most demanding process and meteorological measurements in high-humidity condensing environments.

HMT337 is delivered in one of three configurations:

1. Basic HMT337, with a non-warmed probe for applications where humidity levels are not constantly near condensation

Technical Data

Temperature measurement range -70 ... +180 °C (-94 ... +356 °F)

Accessories

Cable gland for probe cable	HMP247CG		
Duct installation kit (RH probe) ¹⁾	210697		
Duct installation kit (T probe) 1)	215003		
Swagelok fittings (NPT and ISO) for bot	th RH and T probes (up to 10 bar)		
Solar radiation shield	DTR502B		
Meteorological installation kit	HMT330MIK		
USB service port cable with PC software	219916		
Connection cable for HM70	211339		
Wall-mounting plate (plastic)	214829		
Pole installation kit with rain shield	215109		
DIN rail installation set	215094		
Warmed probe accessory	HMT330WPA		
PPS plastic grid filter with stainless steel net	DRW010281SP		
PPS plastic grid filter	DRW010276SP		
Stainless steel sintered filter	HM47280SP		
Stainless steel grid filter	HM47453SP		
For more installation accessories, shock the order form			

For more installation accessories, check the order form.

- 2. HMT337 with a warmed probe, for dew point temperature measurement under constant near-condensing conditions
- 3. HMT337 with a warmed probe and an additional temperature sensor, for relative humidity measurement under constant near-condensing conditions

True Humidity Readings in Condensation Conditions

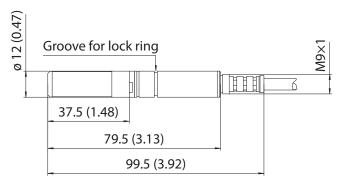
Vaisala's unique warmed probe provides fast and reliable measurement in environments where humidity is near saturation. The heating prevents condensation from forming on the sensor.

As the probe is heated, the relative humidity level inside it stays below the ambient level. With accurate temperature measurement, the ambient dew point temperature can be calculated precisely.

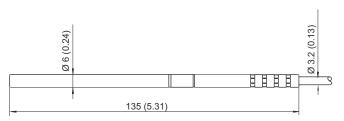
If the relative humidity value is needed, an optional temperature sensor is used (configuration option 3). The measured ambient temperature provides the compensation for calculating relative humidity and other temperature-dependent humidity parameters.

Installation Options

A pressure and vapor tight installation up to 10 bars through a process wall can be achieved by sealing with Swagelok® fittings from the probe, or sealing from the cable with a gland. The optional HMT330MIK Installation Kit is available for outdoor installations; duct installation kits are also available.



HMT337 RH Dimensions in mm (inches)



HMT337 T Dimensions in mm (inches)

HMT338 Humidity and Temperature Transmitter for Pressurized Pipelines



Typical Applications

- Process lines
- Environmental chambers
- Vacuum-drying processes
- · Compressed air lines with refrigerant dryers

Vaisala HUMICAP® Humidity and Temperature Transmitter HMT338 is ideal for installations in pressurized processes where the probe needs to be removed while the process is running.

Insert or Remove the Probe while the Process is Running

With "hot tapping", the probe is inserted directly into the process while it is running, without the need for venting or lowering the process pressure. The probe is tightened to a ball-valve assembly fixed to the process pipe or wall. The adjustable hex nut is hand-tightened to hold the probe in place temporarily.

The probe is then pushed down to the appropriate depth. The hex nut is then tightened with a wrench to lock the probe in place. Hot tapping is possible in pressures up to 10 bar.

Technical Data

Temperature measurement range

remperature measurem	ent range	-70 +100 C (-94 +330	Γ)
Operating pressure		0 4MPa (0 40 bar)	
15	R ½ ISO 7/1 or .61 - 5.87/14.6) * 94/416 (7.64/16.4) 232/454 (9.13/	14 (0.55)	
	gths for standard / ely user-adjustable		

-70 +180 °C (-94 +356 °F)

Dimensions in mm (inches)

Accessories

Ball-valve set	BALLVALVE-1
Pressure fitting ISO 1/2 to NPT 1/2	210662
USB service port cable with PC software	219916
Connection cable for HM70	211339
Wall-mounting plate (plastic)	214829
Pole installation kit with rain shield	215109
DIN rail installation set	215094
PPS plastic grid filter with stainless steel net	DRW010281SP
PPS plastic grid filter	DRW010276SP
Stainless steel sintered filter	HM47280SP
Stainless steel grid filter	HM47453SP







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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 a 1 Transmitter type	and Temperature Transmitter HMT331	HMT330 1 0	+++++++	A 1 PRICE
2 Wall probe	fixed			
	with short cable Probe holder plate recommende			
3 No additional temperature		0	_	
4 Parameters 5 Display	RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT No display		<u>B</u>	
5 Display	Graphical display with keypad		1	
6 Power supply	1035 VDC , 24 VAC		 0	
	1035 VDC, 24 VAC with galvanic isolation		1	
	Universal AC-power (100240 VAC)		2	
	Universal AC-power (100240 VAC) + US power cord Universal AC-power (100240 VAC) + EUR power cord	,	3 4	
	Universal AC-power (100240 VAC) + UK power cord	•	5	
	Universal AC-power (100240 VAC) + AUS power cord		6	
	External US AC-adapter (for LAN/WLAN interface in US			
7 Signal output	Analog output channel (Ch1&Ch2&Ch3)	4 20 mA	1	
- Ch1&Ch2 are mandatory	Analog output channel (Ch1&Ch2&Ch3) Analog output channel (Ch1&Ch2&Ch3)	0 20 mA 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 9 for Ch1, Ch2 and Ch3 	No 3rd analog output RH (0100%RH)		B B B	
10	T (range: see below)			
	Td (-20100 °C) (-4+212 °F)		D D D	
	Tdf (-20100 °C) (-4+212 °F)		E E E	
	a (0600g/m3) (0262 gr/ft3)		F F F	
	Tw (0100 °C) (+32+212 °F) x (0500g/kg d.a) (03500gr/lb)		G G G H H H	
	h (-401500 kJ/kg) (-9.5+652.6 Btu/lb)			
	ppm (05000) (05000)		K K K	
	pw (01000 hPa) (014.5psi)		LLL	
	pws (01000 hPa) (014.5psi)		M M M	
SPECIAL Define quantity	dT (-10+50 °C) (14+122 °F) Ch1: Ch2: Optio	nal Ch3:	N N N N X X X	
Define scale		nal Ch3:	^ ^ ^	
		Channel 1		
		Channel 2		
44 A1	No de conservatione en de cal	Channel 3, choose A if no		
11 Analog output range for temperature	No temperature output -40+60 °C (-40+140 °F)		A B	
Note:	-20+60 °C (-4+140 °F)		ř I I	
- Choose option A, if no	0+60°C (+32+140°F)		к	
T output is desired	Special :		X	
12 Output units	Metric		1 2	
13 Option for module slot 1	Non-metric 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 Data logger module	With short cable probe on	nly 5	
14 Option for module slot 2	No module			0
	Relay output			1
	3rd Analog output Choose also analog output sig			3
15 Cable bushings	Data logger module Not possible if the data logger Cable gland M20 x 1.5	module has already been chos	sen in item 13	<u>6</u>
Note: The Universal	Conduit fitting NPT1/2"			
AC power not connected	8-pole connector with 5 m cable		spare cable: 212142	c
through 8-pole connector!	8-pole counter connector equipped with screw terminals		spare connector: 212416	D
16 Transmitter !	Bushing Set (Cable gland M20 x 1.5 and Conduit fitting	NPT1/2")		<u> </u>
16 Transmitter installation	Normal mounting Wall mounting plate		item: 214829	0
	Pole installation kit		item: 215108	2
	Pole installation kit with rain shield		item: 215109	3
	DIN rail kit	a proba	item: 215094	4 5
17 Humidity sensor type	Probe holder plate Recommended with short cabl General purpose and high chemical concentrations	HUMICAP180R	spare: HUMICAP180R	 _
	with chemical purge function	HUMICAP180RC	spare: HUMICAP180RC	ĉ
	Catalytic humicap sensor with chemical purge	HUMICAP180VC	spare: HUMICAP180VC	κ
18 Sensor protection	PPS plastic grid & stainless steel netting	·	spare: DRW010281SP	A
	PPS plastic grid Sintered stainless steel filter		spare: DRW010276SP spare: HM47280SP	B
19 No probe installation kit	Cintor da Stanness Steel nittel		Spare. I INITI 20001	
20 Operating manual	No manual			Α
language	English			B
	German French			C
	Finnish			E
	Swedish			F
	Spanish			G
pdf user's guides avalable at:	Japanese			i
www.vaisala.com/hmt330	Russian Chinese			K
21 PC Accessories	No Chinese			A
	Service cable for PC, RS232 (D9 female connector)		item: 19446ZZ	B
	MI70LINK software for Windows® with RS232 service co	able	item: 215005	c
	Service cable for PC, USB	1-	item: 219685	D
22 Calibration	MI70LINK software for Windows® with USB service cab ISO9001 compliant factory calibration	ie	item: 219916 service item for calibration: RH	ICALSTD A
Januration	Special calibration		service item for calibration: HH see separate order form	X
23 Additional maintenance	No maintenance and repair contract		coparate brook form	1
23 Additional Indintendrice				

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 | O | B | 1 | O | 1 | B | C | A | B | 1 | O | O | A | 1 | A | A | B | A | A | 1

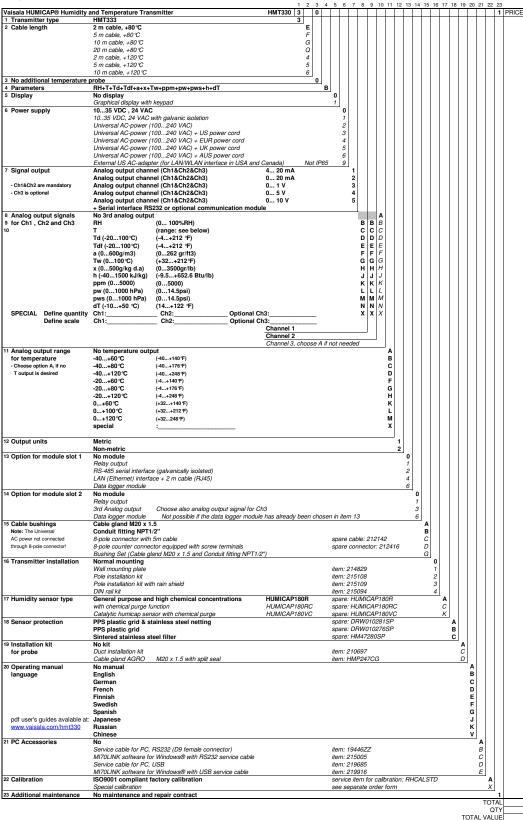
End customer:

TOTAL QTY TOTAL VALUE

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

HMT333 Humidity and Temperature Transmitter

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:

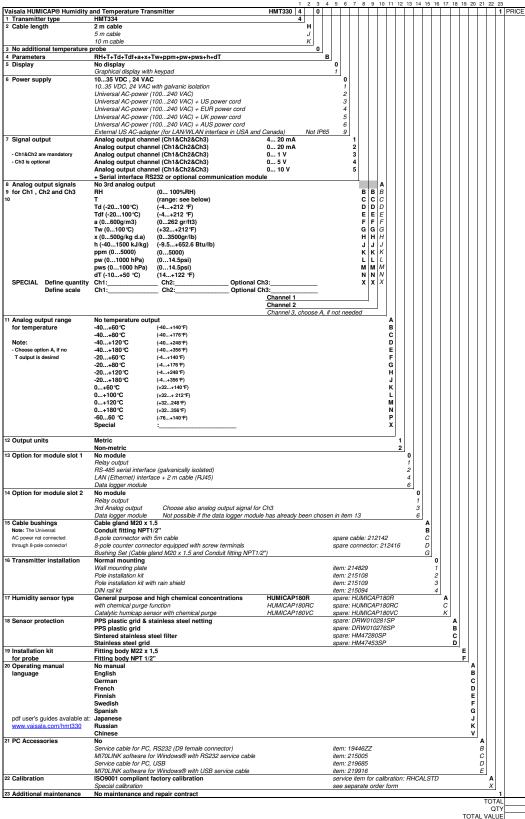
HMT330 3 E 0 B 1 0 1 B C A F 1 0 0 A 0 A A A B A A 1

End customer



HMT334 Humidity and Temperature Transmitter

For pressurized processes



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

End custome

HMT335 Humidity and Temperature Transmitter For high temperatures

Valanta Ulitaro Abo	and Tames		1 2 3	4 5 6 7 8 9 1	11 12 1	3 14 15	16 17 1	8 19	20 21		23 4 IDDICE
Vaisala HUMICAP® Humidity a 1 Transmitter type	nd Temperature Trans HMT335	smitter	HMT330 5 0	+++++	+++	+ + +	++	+	+	+	1 PRICI
2 Cable length	2 m cable		L		+ $+$ $+$						
-	5 m cable		М		+						
	10 m cable 15 m cable		N P		$ \cdot $						
No additional temperature p	robe		0								
Parameters Display	RH+T+Td+Tdf+a+x+ No display	Tw+ppm+pw+pws+h+dT		В 0	$ \cdot \cdot $						
Display	Graphical display with	keypad		1							
Power supply	1035 VDC , 24 VAC	:		0							
	1035 VDC, 24 VAC Universal AC-power (1 2							
	Universal AC-power (100240 VAC) + US power cord		3							
		100240 VAC) + EUR power cord 100240 VAC) + UK power cord		4 5							
		100240 VAC) + AUS power cord		6							
0111	External US AC-adap	ter (for LAN/WLAN interface in USA and									
Signal output	Analog output chan Analog output chan		4 20 mA 0 20 mA	1 2							
- Ch1&Ch2 are mandatory	Analog output chan	nel (Ch1&Ch2&Ch3)	0 1 V	3							
- Ch3 is optional	Analog output chan Analog output chan		0 5 V 0 10 V	4 5							
	+ Serial interface RS	232 or optional communication modu									
Analog output signals	No 3rd analog outpu RH			B B B							
for Ch1, Ch2 and Ch3	T	(0 100%RH) (range: see below)		CCC							
	Td (-20100°C)	(-4+212 °F)		D D E							
	Tdf (-20100 °C) a (0600g/m3)	(-4+212 °F) (0262 gr/ft3)		E E E							
	Tw (0100 °C)	(+32+212°F)		GGG							
	x (0500g/kg d.a)	(03500gr/lb)		H H F	/						
	h (-401500 kJ/kg) ppm (05000)	(-9.5+652.6 Btu/lb) (05000)		J J J K K K							
	pw (01000 hPa)	(014.5psi)		L L L							
	pws (01000 hPa)	(014.5psi)		M M A							
SPECIAL Define quantity	dT (-10+50 °C) Ch1:	(14+122 °F) Ch2: Optional C	h3:	N N A							
Define scale	Ch1:	Ch2: Optional C	h3:	^ ^	$1 \mid 1 \mid$						
			Channel 1		$ \cdot \cdot $						
			Channel 2 Channel 3, choose	A, if not needed	$ \cdot \cdot $						
Analog output range	No temperature outp				A						
for temperature	-40+60℃ -40+80℃	(-40+140°F) (-40+176°F)			B C						
Note:	-40+120°C	(-40+248°F)			D						
- Choose option A, if no T output is desired	-40+180°C	(-40+356°F)			E						
T output is desired	-20+60℃ -20+80℃	(-4+140°F) (-4+176°F)			G						
	-20+120°C	(-4+248°F)			H						
	-20+180°C	(-4+356°F) (+32+140°F)			J						
	0+60°C 0+100°C	(+32+140 F) (+32+ 212 F)			K L						
	0+120°C	(+32248°F)			М						
	0+180°C -6060 °C	(+32356 °F) (-76+140 °F)			N P						
	Special	(-/b+140°F)			X						
	Metric										
2 Output units	Non-metric				2						
3 Option for module slot 1	No module										
	Relay output	e (galvanically isolated)			2						
	LAN (Ethernet) interfa	ace + 2 m cable (RJ45)			4						
4 Outlan for module also	Data logger module	•			6						
4 Option for module slot 2	No module Relay output					0					
	3rd Analog output	Choose also analog output signal for				3					
5 Cable bushings	Data logger module	Not possible if the data logger module	le has already been cho	sen in item 13		6 A					
Note: The Universal	Cable gland M20 x 1 Conduit fitting NPT1					В					
AC power not connected	8-pole connector with	5m cable		spare cable: 21214		С					
through 8-pole connector!	8-pole counter conne Bushing Set (Cable of	ctor equipped with screw terminals land M20 x 1.5 and Conduit fitting NPT1/	2")	spare connector: 2	12416	D G					
6 Transmitter installation	Normal mounting	med x 1.0 and obtain thing NPT1/	-,				0				
	Wall mounting plate			item: 214829			1				
	Pole installation kit Pole installation kit wi	th rain shield		item: 215108 item: 215109			3				
	DIN rail kit			item: 215094			4				
7 Humidity sensor type	tale to a male all manners &	d high chemical concentrations	HUMICAP180R	spare: HUMICAP1			A				
	with chemical purge to Catalytic humicap ser	nsor with chemical purge	HUMICAP180RC HUMICAP180VC	spare: HUMICAP1 spare: HUMICAP1	BOVC .		C K				
Sensor protection	PPS plastic grid & st	tainless steel netting		spare: DRW01028	1SP			A			
	PPS plastic grid Sintered stainless st	teel filter		spare: DRW01027 spare: HM47280SI				B C			
	Stainless steel grid			spare: HM47453SI				D			
Installation kit	No kit							Α			
for probe Operating manual	Mounting flange No manual			item: 210696				G	A		
language	English								В		
	German								С		
	French Finnish								D E		
	Swedish								F		
malf manufa model	Spanish								G		
pdf user's guides avalable at: www.vaisala.com/hmt330	Japanese Russian								J K		
	Chinese								V		
1 PC Accessories	No	PC222 (DQ famala connected)		itom: 1044677					A	:	
	MI70LINK software for	RS232 (D9 female connector) r Windows® with RS232 service cable		item: 19446ZZ item: 215005					B		
	Service cable for PC,	USB		item: 219685					D	-	
2 Calibration		r Windows® with USB service cable		item: 219916	ihratian.	UCALOT	n		Е		
2 Calibration	ISO9001 compliant f Special calibration	actory Campranon		service item for cal see separate order		HUMLOT	U			X	
3 Additional maintenance	No maintenance and	l repair contract									1
										TOT	
								тс	TAL	Q1 VALL	

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

End customer:

HMT337 Humidity and Temperature Transmitter

For high humidities

a HUMICAP® Humidity samilter type lei length littional temperature be ameters lay ver supply hal output l&Ch2 are mandatory ls optional long output signals Ch1 , Ch2 and Ch3	HMT337 2 m cable 5 m cable 5 m cable 10 m cable 20 m cable 10 m cable 20 m cable 10 m ca	Tw+ppm+pw+pws+h+dT a keypad C with galvanic isolation 100240 VAC) + US power cord 100240 VAC) + EUR power cord 100240 VAC) + UK power cord 100240 VAC) + JUK power cord 100240 VAC) + AUS power cord ter (for LAN/WLAN interface in USA el (ChitaCh28Ch3) el (ChitaCh28Ch3) el (ChitaCh28Ch3) el (ChitaCh28Ch3) el (ChitaCh28Ch3) el (ChitaCh28Ch3)	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	B 0 1 0 1 2 3 4 5 6				1
ilitional temperature be ameters play ver supply real output t&Ch2 are mandatory Is optional	5 m cable 10 m cable 20 m cable 20 m cable 20 m cable 20 m cable No probe RH+T-Td+Tdf+a+x+ No display Graphical display wift 1035 VDC, 24 VAC Universal AC-power (Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) Third Library Analog output chann + Serial interface RS No 3rd analog output RH Td (-20100 °C) Tdf (-20100 °C) Tdf (-20100 °C) Tdf (-20100 °C) Tdf (-20500g/kg d.a) h (-401500 kJ/kg)	n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	and Canada) Not IF 4 20 mA 0 20 mA 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
meters play ver supply nal output t.&Ch2 are mandatory Is optional	10 m cable 20 m cable No probe RH+T-Td+Tdf+a+x+1 No display Graphical display wilt 1035 VDC, 24 VAC Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) Universal AC-power (Universal AC-power) External US AC-adap Analog output chann Cable Company Td (-20100 °C) Td (-20100 °C) Td (-20100 °C) Td (-20100 °C) Tw (0100 °C) Tw (0100 °C) Tw (0100 °C) Tw (0100 °C) The Company Th	n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	and Canada) Not IF 4 20 mA 0 20 mA 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
meters play ver supply nal output t.&Ch2 are mandatory Is optional	20 m cable RH+T+Td+TdH+a+x+ No display Graphical display with 1035 VDC, 24 VAC Universal AC-power (Thire of the Universal AC-power (Universal AC-power (Thire of the Universal AC-power (Universal US AC-power (Universal AC-powe	n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	and Canada) Not IF 4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
meters play ver supply nal output t.&Ch2 are mandatory Is optional	RH+T+Td+Td+sa+x+1 No display Graphical display with 1035 VDC . 24 VAC Universal AC-power (n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	and Canada) Not IF 4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
anal output 18.602 are mandatory 1s optional	No display foraphical display with 1035 VDC, 24 VAC 1035 VDC, 24 VAC Universal AC-power (Analog output chann The Company	n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
ver supply nal output L&Ch2 are mandatory Is optional	No display foraphical display with 1035 VDC, 24 VAC 1035 VDC, 24 VAC Universal AC-power (Analog output chann The Company	n keypad with galvanic isolation 100240 VAC) 100240 VAC) + US power cord 100240 VAC) + US power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVIA) Al interface in USA ell (Chi &Ch&CAC) ell (Chi &	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 0 0 1 2 2 3 4 5 5 6 9 9 1 1 2 3 3 4 4 5 5 6 C C C C C C D D D D				
nal output &Ch2 are mandatory Is optional	1035 VDC , 24 VAC 1035 VDC , 25 VDC	Construction of the Constr	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 2 3 4 5 6 9 1 1 2 3 3 4 4 5 5 6 C C C C C C C D D D D D D D				
nal output &Ch2 are mandatory Is optional	10.35 VDC, 24 VAC. Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (External US AC-adap Analog output chann Capacity (Capacity Capacity Cap	with galvanic isolation 100240 VAC) + US power cord 100240 VAC) + EUR power cord 100240 VAC) + EUR power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord 100240 VAC) 100	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 2 3 4 5 6 9 1 1 2 3 3 4 4 5 5 6 C C C C C C C D D D D D D D				
8.Ch2 are mandatory 3 is optional log output signals	Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (External US AC-adap Analog output chann Cap (Universal Cap (Universal Analog output Chann Cap (Universal Cap (Universal Chann	100240 VAC) + US power cord 100240 VAC) + EUR power cord 100240 VAC) + EUR power cord 100240 VAC) + AUS power cord 100100% RH) (range : see below) (-4+212 °F) (-4+212 °F) (-4+212 °F)	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	3 4 5 6 9 1 1 2 3 3 4 4 5 6 C C C C C C D D D D D D				
8.Ch2 are mandatory 3 is optional log output signals	Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (Universal AC-power (External US AC-adape Analog output chann Carlo (Universal Car	100240 VAC) + EUR power cord 100240 VAC) + UK power cord 100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANWHA) interface in USA tel (Ch14Ch26Ch3) tel (Ch14Ch3Ch3Ch3) tel (Ch14Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3Ch3C	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	4 5 6 9 1 2 3 4 5 5 B B B C C C C C C D D D D D D				
8.Ch2 are mandatory 3 is optional log output signals	Universal AC-power (External US AC-adage Araleg output chann Analog output chann T if (-20100°C) Tdf (-20100°C) Tdf (-20100°C) Tw (0500g/kg d.a) h (-401500 kJ/kg)	100240 VAC) + UK power cord 100240 VAC) + AUS power cord ter (for LANVWLAN interface in USA el (Ch1&Ch2&Ch3) el (Ch1&Ch3) el (Ch1	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	5 1 2 3 4 5 5 6 6 6 7 7 7 7 7 7 7				
8.Ch2 are mandatory 3 is optional log output signals	Universal AC-power (External US AC-adap Analog output chann Analo	100240 (VAC) + AUS power cord ter (for LANWLAM interface in USA. lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) lel (Chit &Ch&&Ch3) 220 or optional communication mo (-4212 °F) (-4212 °F) (-4212 °F) (-4212 °F)	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	6 9 1 2 3 4 5 5 B B B C C C C D D D D D D D D D D D D D				
8.Ch2 are mandatory 3 is optional log output signals	Analog output chann No 3rd analog output chann T d (-20100°C) Tdf (-20100°C) Td (-20100°C) x (0500g/kg d.a) h (-401500 k/kg)	el (Ch1&Ch2&Ch3) ele (Ch2&Ch3) ele	4 20 mA 0 20 mA 0 1 V 0 5 V 0 10 V	1 2 3 4 4 5 5 B B B C C C D D D D D D D D D D D D D D				
8.Ch2 are mandatory 3 is optional log output signals	Analog output chann Holling output chann Card analog output Chann Tid (-20100°C) Tid (-20100°C) Tid (-20100°C) X (0500g/kg d.a) h (-401500 k/l/g)	lel (Ch1&Ch2&Ch3) lel (Ch1&Ch2&Ch3) lel (Ch1&Ch2&Ch3) lel (Ch1&Ch2&Ch3) 232 or optional communication mo t (0100%RH) (range : see below) (-4+212 °F) (-4+212 °F) (0282 gr/tr3)	0 20 mA 0 1 V 0 5 V 0 10 V	3 4 5 B B B C C C C D D D				
is optional	Analog output chann Analog output chann Analog output chann + Serial interface RS No 3rd analog output RH T Td (-20100°C) Tdf (-20100°C) Tdg (0600g/m3) Tw (0500g/kg d.a) h (-401500 k/kg)	sel (Ch1&Ch2&Ch3) sel (Ch1&Ch2&Ch3) sel (Ch1&Ch2&Ch3) sel (Ch1&Ch2&Ch3) a22 or optional communication mo t (0100°SeH) (range : see below) (-4+212 °F) (0262 gr/f13) (6262 gr/f13)	0 1 V 0 5 V 0 10 V	3 4 5 B B B C C C C D D D				
log output signals	Analog output chann Analog output chann Analog output chann Analog output RH T d (-20100 °C) a (0600g/m3) Tw (0100 °C) c (0500g/kg d.a) h (-401500 k/kg)	lel (Ch14Ch2&Ch3) lel (Ch14Ch2&Ch3) 232 or optional communication mot t (100%RH) (range : see below) (-4\$212 F) (-4\$212 F) (0262 gr/ft3) (432\$212 F)	0 10 V	5 A B B B C C C C C D D D D				
ilog output signals Ch1 , Ch2 and Ch3	+ Serial interface RS No 3rd analog outpu RH T Td (-20100°C) Tdf (-20100°C) a (0600g/m3) Tw (0100°C) x (0500g/kg d.a) h (-401500 kJ/kg)	232 or optional communication mot t (0 100%RH) (range : see below) (-4+212 °F) (-4+212 °F) (0262 gr/ft3) (432+212 °F)		B B B C C C C				
log output signals Ch1 , Ch2 and Ch3	No 3rd analog outpu RH T Td (-20100°C) Tdf (-20100°C) a (0600g/m3) Tw (0500g/kg d.a) h (-401500 kJ/kg)	t (0 100%RH) (range : see below) (-4+212 °F) (-4+212 °F) (0262 gyft3) (+32+212 °F)	No.	B B B C C C D D D				
Chī , Ch2 and Ch3	RH T Td (-20100 °C) Tdf (-20100 °C) a (0600g/m3) Tw (0100 °C) x (0500g/kg d.a) h (-401500 kJ/kg)	(0 100%RH) (range : see below) (-4+212 °F) (-4+212 °F) (0262 gr/ft3) (+32+212 °F)		C C C				
	Td (-20100 °C) Tdf (-20100 °C) a (0600g/m3) Tw (0100 °C) x (0500g/kg d.a) h (-401500 kJ/kg)	(-4+212 °F) (-4+212 °F) (0262 gr/ft3) (+32+212 °F)		D D <i>D</i>				
	Tdf (-20100 °C) a (0600g/m3) Tw (0100 °C) x (0500g/kg d.a) h (-401500 kJ/kg)	(-4+212 °F) (0262 gr/ft3) (+32+212 °F)		F F E				
	a (0600g/m3) Tw (0100 °C) x (0500g/kg d.a) h (-401500 kJ/kg)	(0262 gr/ft3) (+32+212 °F)						
	Tw (0100 °C) x (0500g/kg d.a) h (-401500 kJ/kg)	(+32+212°F)		F F <i>F</i>		+ $+$ $+$ $+$		
	h (-401500 kJ/kg)	(U3500gr/lb)		G G <i>G</i>		+ $+$ $+$ $+$		
		(-9.5+652.6 Btu/lb)		H H H		++++		$ \cdot $
	ppm (05000)	(05000)		J J J K K K	+1111	+ $+$ $+$ $+$		
	pw (01000 hPa)	(014.5psi)		L L L		+ $+$ $+$ $+$		\perp
	pws (01000 hPa)	(014.5psi)		M M M N N N	+1111	+ $+$ $+$ $+$		
CIAL Define quantity	dT (-10+50 °C) Ch1:	(14+122 °F) Ch2: Optiona	I Ch3:	X X X	+1111	+ $+$ $+$ $+$		
Define scale	Ch1:	Ch2:Optiona	l Ch3:	" " "		+ $+$ $+$ $+$		\perp
			Channel 1			+ $+$ $+$ $+$		\perp
			Channel 2	A if not pooded				
log output range	No temperature outp	out	Channel 3, choose A	n, ii lioi lieedeu	Α	+ $+$ $+$ $+$		\perp
temperature	-40+60°C	(-40+140°F)			В	+ $+$ $+$ $+$		
	-40+80°C	(-40+176°F)			C	+		
e: oose option A, if no	-40+120 °C -40+180 °C	(-40+248°F) (-40+356°F)			D E	+ $+$ $+$ $+$		\perp
utput is desired	-20+60°C	(-4+140 °F)			F	+ $+$ $+$ $+$		\perp
	-20+80°C	(-4+176°F)			G			
	-20+120 °C -20+180 °C	(-4+248 °F)			H			
	-20+180 °C 0+60 °C	(-4+356 °F) (+32+140 °F)			K			
	0+100°C	(+32+ 212°F)			Ĺ l			
	0+120°C	(+32248°F)			M			
	0+180°C	(+32356°F)			N P			
	-6060 °C Special	(-76+140°F)			X			
put units	Metric				1 2			
ion for module slot 1	Non-metric No module				2 0			
	Relay output				1			
		e (galvanically isolated)			2			
		ace + 2 m cable (RJ45)			4 6			
ion for module slot 2	No module				0			
	Relay output				1			
	3rd Analog output	Choose also analog output signal			3			
le bushings	Data logger module Cable gland M20 x 1.	Not possible if the data logger mo	odule nas aiready been cr	nosen in item 13	6	اااا		
: The Universal	Conduit fitting NPT1				É	3		\perp
ower not connected	8-pole connector with	5m cable		spare cable: 212142				\perp
		ctor equipped with screw terminals		engra connector: Of	241C F			\perp
gh 8-pole connector!	Pushing C-+ 'O'	land M20 v 1 F and O 4 Eur	OT1/0")	spare connector: 21				
gh 8-pole connector!	Bushing Set (Cable gi	land M20 x 1.5 and Conduit fitting NF	PT1/2")	spare connector: 21	2410			
	Bushing Set (Cable go Normal mounting Wall mounting plate	land M20 x 1.5 and Conduit fitting NF	PT1/2")	item: 214829		0		
gh 8-pole connector!	Bushing Set (Cable go Normal mounting Wall mounting plate Pole installation kit	land M20 x 1.5 and Conduit fitting NF	PT1/2")	item: 214829 item: 215108		0		
gh 8-pole connector!	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi	land M20 x 1.5 and Conduit fitting NF	PT1/2")	item: 214829 item: 215108 item: 215109		0 1 2 3		
gh 8-pole connector!	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi DIN rail kit	land M20 x 1.5 and Conduit fitting NF	PT1/2") HUMICAP180R	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18	OR G	0		
gh 8-pole connector!	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi DIN rail kit General purpose and with chemical purge fi	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18	OR OR ORC	0 1 2 3 4 A		
nsmitter installation	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi DIN rail kit General purpose and with chemical purge fi Catalytic humicap set	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction soor with chemical purge	HUMICAP180R	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18	OR OR ORC OVC	0 1 2 3 4 A C K		
gh 8-pole connector!	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit vole installation kit wi DIN rail kit General purpose and with chemical purge fi Catalytic humicap ser PPS plastic grid & si	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction soor with chemical purge	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010281	OR OR ORC OVC SP	0 1 2 3 4 A C K		
nsmitter installation	Bushing Set (Cable g Normal mounting Wall mounting plate Pole installation kit Pole installation kit wide DIN rail kit General purpose and with chemical purge for Catalytic humicap ser PPS plastic grid & st PPS plastic grid stainless st	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010281 spare: DRW010281 spare: HW47280SP	OR OR ORC OVC SP	0 1 2 3 4 A C K		
nsmitter installation midity sensor type sor protection	Bushing Set (Cable g. Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi DIN rail kit General purpose and with chemical purge in Catalytic humicap ser PPS plastic grid & st PPS plastic grid & st PS Stainless st Stainless st Stainless steel grid via the proper stainless st Stainless steel grid via the properties of the pr	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DRWI02276 spare: DRWI02276	OR OR ORC OVC SP	0 1 2 3 4 A C K		
nsmitter installation nidity sensor type sor protection	Bushing Set (Cableg in Normal mounting) Wall mounting plate Pole installation kit Pole installation kit width of the Normal with the Normal kit General purpose and with chemical purge for Catalylic humicap ser PPS plastic grid & st PPS plastic grid stainless steel grid No kit	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215099 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010281 spare: DRW010281 spare: DRW010281 spare: HM47280SP spare: HM47280SP	OR OR ORC OVC SP	0 1 2 3 4 A C K	A	
nsmitter installation midity sensor type sor protection	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit who Pole installation kit who Dil rail kit General purpose and with chemical purge for Catalyith bumicap ser PPS plastic grid Sintered stainless st Stainless steel grid No kit Duct installation kit Cable gland AGRO	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010278 spare: DRW010278 spare: HM47280SP spare: HM47453SP item: 210697 item: 116MP247CG	DR DRC DPC DVC SSP SSP	0 1 2 3 4 A C K A B C D	C D	
nsmitter installation nidity sensor type sor protection	Bushing Set (Cable gi Normal mounting plate Pole installation kit wide Dil raik kit General purpose and with chemical purgose Catalytic humicap set PPS plastic grid Sintered stainless at Stainless steel grid No kit Cable gland AGRO Swagelok NPT 1/2*	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215108 item: 215109 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010276 spare: HMM728059 spare: HMM728059 item: 210697 item: HMP247CG item: SW0212WPT12	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K	
nsmitter installation nidity sensor type sor protection	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit wide Pole installation kit wide Bushing with the plate of the purpose and with chemical purpose and with chemical purpose Catalytic humicap ser PPS plastic grid Sintered stainless st PPS plastic grid Sintered stainless st Stainless steel grid No kit Duct installation kit Cable gland AGRO Swagelok NPT 1/2* Swagelok SO 3/8*	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L	
nsmitter installation nidity sensor type sor protection	Bushing Set (Cable gi Normal mounting plate Pole installation kit wide Dil raik kit General purpose and with chemical purgose Catalytic humicap set PPS plastic grid Sintered stainless at Stainless steel grid No kit Cable gland AGRO Swagelok NPT 1/2*	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215108 item: 215109 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010276 spare: HMM728059 spare: HMM728059 item: 210697 item: HMP247CG item: SW0212WPT12	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K	
nsmitter installation midity sensor type sor protection allation kit probe	Bushing Set (Cable gi Normal mounting plate Pole installation kit wide Pole installation kit wide DIN rali kit General purpose and with chemical purpo (catalytic humicap ser PPS plastic grid Sintered stainless st Stainless steel grid No kit Cable gland AGRO Swagelok NPT 1/2* Swagelok 150 3/8* Swagelok 150 1/2* No manual	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y	
igh 8-pole connector! Insmitter installation Inidity sensor type Isor protection Inidity sensor type Isor protection Initiation kit probe	Bushing Set (Cable gi Normal mounting Plate Pole installation kit widelington installation kit oli installation kit cable gland AGRO buck installation kit cable gland AGRO Swagelok NPT 1/2' Swagelok ISO 3/8' Swagelok ISO 3/8' Swagelok ISO 1/2' No manual English German	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y	
igh 8-pole connector! Insmitter installation Inidity sensor type Isor protection Inidity sensor type Isor protection Initiation kit probe	Bushing Set (Cable gi Normal mounting plate Pole installation kit wide Pole installation kit wide DIN rali kit General purpose and with chemical purge is catalytic humicap ser PPS plastic grid & st PPS plastic grid & st	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y	
igh 8-pole connector! Insmitter installation Inidity sensor type Isor protection Inidity sensor type Isor protection Initiation kit probe	Bushing Set (Cable gi Normal mounting plate Pole installation kit vi Pole installation kit wi DIN rali kit General purpose and with chemical purgo i Catalytic humicas ex- PPS plastic grid & st PPS p	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F	
ingle 8-pole connectors Insmitter installation Inidity sensor type Isor protection Inidity sensor type Isor protection Initiation kit probe Initiation kit probe	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit wi Dill rail kit Ceneral purpose and with chemical purge for Catalythe humicap set PPS plastic grid Sintered stainless st Stainless steel grid No kit Stainless steel grid No kit Cable gland AGRIO Swagelok NPT 1/2" Swagelok ISO 3/8" Finnish Swedish Swedish Spanish	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G	
insmitter installation inidity sensor type sor protection allation kit probe sorting manual puage	Bushing Set (Cable gi Normal mounting plate Pole installation kit vibole vibol	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J	
ingle 8-pole connectors Insmitter installation Inidity sensor type Isor protection Inidity sensor type Isor protection Initiation kit probe Initiation kit probe	Bushing Set (Cable gi Normal mounting Plate Pole installation kit widen installation kit gid sintered stainless st Stainless steel grid No kit Stainless steel grid No kit Cable gland AGRO Swagelok NPT 1/2" Swagelok NPT 1/2" Swagelok NO 1/2" Swagelok NO 1/2" No manual English German French Finnish Swedish Spanish Japanese Russian	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations unction sor with chemical purge tainless steel netting	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J K	
insmitter installation inidity sensor type sor protection allation kit probe sorting manual puage	Bushing Set (Cable gi Normal mounting Plate Pole installation kit wide Pole installation kit wide Pole installation kit wide Dil Tail kit General purpose and with chemical purge for Catalythe humicap set PPS plastic grid Sintered stainless st Stainless steel grid No kit Stainless steel grid No kit Stainless steel grid No kit Swagelok NPT 1/2" Swagelok NPT 1/2" Swagelok NSO 3/8" Swagelok SO 3/8" Swagelok SO 3/8" Swagelok SO 1/2" No manual English German French Finnish Swedish Spanish Japanese Russian Chinese	land M20 x 1.5 and Conduit fitting NF tith rain shield I high chemical concentrations unction sor with chemical purge alainless steel netting eel filter	HUMICAP180R HUMICAP180RC	item: 214829 item: 215108 item: 215109 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: DFW010276 spare: HM472805P spare: HM472805P spare: HM472805P item: SW612NPT11 item: SW612NPT11 item: SW612NPT11 item: SW612NPT11	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J	
igh 8-pole connector! insmitter installation inidity sensor type isor protection allation kit probe serating manual puage user's guides available at w.vaisala.com/hmt330	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit wide Dollaria in the pole installation kit wide General purpose and with chemical purge in Catalytic humicap ser PPS plastic grid & st PPS p	land M20 x 1.5 and Conduit fitting NF tith rain shield I high chemical concentrations unction rsor with chemical purge tainless steel nettling eet filter	HUMICAP180R HUMICAP180RC HUMICAP180VC	item: 214829 item: 215108 item: 215108 item: 215094 spare: HLMICAP18 spare: HLMICAP18 spare: HLMICAP18 spare: PRW010281 spare: PRW010281 spare: PRW010281 spare: PRW010281 spare: HMM2480SP spare: HMM2480SP item: SW012NP111 item: SW012NP111 item: SW012SO38 item: SW012SO32	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J K V A B	3
igh 8-pole connector! insmitter installation inidity sensor type isor protection allation kit probe serating manual puage user's guides available at w.vaisala.com/hmt330	Bushing Set (Cableg in Normal mounting Wall mounting plate Pole installation kit width of the Normal mounting plate General purpose and with chemical purge for Catalythe humicap set PPS plastic grid Sintered stainless st Stainless steel grid No kit Cable gland AGRO Swagelok NPT 1/2* Swagelok NSO 3/8* Swagelok NSO 1/2* No manual English German French Finnish Swedish Spanish Japanese Russian Chinese No Service cable for PC, M70LINK Software for PC, M70LINK Software for PCP.	In the rain shield If high chemical concentrations unction Soo with chemical purge airliess steel netting eel filter RS232 (D9 female connector) r Windows® with RS232 service cab	HUMICAP180R HUMICAP180RC HUMICAP180VC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010276 spare: DRW010276 spare: HM4728059 item: 210697 item: SWG12NPT1i. item: SWG12NPT2 item: SWG12ND12 item: SWG12ND12 item: SWG12ND12 item: SWG12ND12 item: SWG12ND12	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J K V A B	3
igh 8-pole connector! insmitter installation inidity sensor type isor protection allation kit probe serating manual puage user's guides available at w.vaisala.com/hmt330	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit wi Doll installation kit wi DIN rali kit General purpose and with chemical purge in Catalytic humicap ser PPS plastic grid 8 st PPS plastic grid grid grid grid grid grid grid grid	And M20 x 1.5 and Conduit filting NF tith rain shield I high chemical concentrations unction sor with chemical purge tainless steel nettling eet filter RS232 (D9 female connector) r Windows® with RS232 service cab USB	HUMICAP180R HUMICAP180PC HUMICAP180VC	item: 214829 item: 215108 item: 215108 item: 215109 spare: HUMICAP18 spare: HUMICAP18 spare: HUMICAP18 spare: PROVI 1028 spare: DRW01 1028 spare: DRW01 1028 spare: HWH2780SP spare: HWH2780SP item: SW012NP11 item: SW012NP11 item: SW012SO38 item: SW012SO32	OR ORC OVC SP SP	0 1 2 3 4 A C K	C D K L Y A B C D E F G J K V A B C D	3
igh 8-pole connector! insmitter installation inidity sensor type isor protection allation kit probe serating manual puage user's guides available at w.vaisala.com/hmt330	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit wi Doll installation kit wi DIN rali kit General purpose and with chemical purge in Catalytic humicap ser PPS plastic grid 8 st PPS plastic grid grid grid grid grid grid grid grid	In the rain shield It high chemical concentrations unction Soo with chemical purge airliess steel netting eet filter RS232 (D9 female connector) FWINGOWS® with FS232 service cable USB	HUMICAP180R HUMICAP180PC HUMICAP180VC	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18 spare: HUMICAP18 spare: HUMICAP18 spare: DRW010276 spare: DRW010276 spare: HM4728059 item: 210697 item: SWG12NF71i item: SWG12NF71i item: SWG12NF012 item: SWG12NF012 item: SWG12NF012 item: SWG12NF012 item: SWG12NF012	CONTRACTOR OF THE CONTRACTOR O	1 2 3 4 A C K B C D	C D K L Y A B C D E F G J K V A B	3
gh 8-pole connector!	Bushing Set (Cable gi Normal mounting Wall mounting plate Pole installation kit Pole installation kit wi DIN rail kit General purpose and	land M20 x 1.5 and Conduit fitting NF ith rain shield I high chemical concentrations	HUMICAP180R	item: 214829 item: 215108 item: 215109 item: 215094 spare: HUMICAP18	OR G	0 1 2 3 4		

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 A B A A 1

End customer:

QTY TOTAL VALUE

HMT337 Humidity and Temperature Transmitter with warmed probe

Transmitter type	Ind Temperature Transmitter HMT330 7 HMT337 7	1
Cable length	2 m cable S	;
(dew point probe)	5 m cable T	
	10 m cable U 20 m cable R	
3 Additional temperature	No probe	_ 0
probe	2 m cable 5 m cable	1 2
NOTE: select to measure	10 m cable	3
RH and T 4 Parameters	20 m cable Td+Tdf+x+pw (dew point probe only)	 c
	RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h+dT (with additional T probe	e) D
5 Display	No display Graphical display with keypad	0
6 Power supply	1035 VDC , 24 VAC	o
	1035 VDC, 24 VAC with galvanic isolation	1
	Universal AC-power (100240 VAC) Universal AC-power (100240 VAC) + US power cord	2 3
	Universal AC-power (100240 VAC) + EUR power cord	4
	Universal AC-power (100240 VAC) + UK power cord Universal AC-power (100240 VAC) + AUS power cord	5 6
	External US AC-adapter (for LAN/WLAN interface in USA and Canada) No	lot IP65 9
7 Signal output	Analog output channel (Ch1&Ch2&Ch3) 4 20 mA Analog output channel (Ch1&Ch2&Ch3) 0 20 mA	1
- 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 Analog output channel (Ch1&Ch2&Ch3) 0 10 V	4
	+ Serial interface RS232 or optional communication module	
8 Analog output signals 9 for Ch1 , Ch2 and Ch3	No 3rd analog output	B B B
10	T (range: see below)	c c c
(ref. to parameters	Td (-20100°C) (-4+212 °F)	D D D
selection above)	Tdf (-20100 °C) (-4+212 °F) a (0600g/m3) (0262 gr/ft3)	E E E
	Tw (0100 °C) (+32+212 °F)	G G G
	x (0500g/kg d.a) (03500gr/lb) h (-401500 kJ/kg) (-9.5+652.6 Btu/lb)	J J J J H H H
	ppm (05000) (05000)	K K K
	pw (01000 hPa) (014.5psi) pws (01000 hPa) (014.5psi)	L L L L M M M M
	dT (-10+50 °C) (14+122 °F)	N N N
SPECIAL Define quantity	Ch1: Ch2: Optional Ch3:	x x x
Define scale	Ch1: Ch2: Optional Ch3: Channel 1	-
	Channel 2	
1 Analog output range	Channel 3, choo	ose A, if not needed
for temperature	-40+60 °C (-40+140 °F)	В
NOTE:	-40+80 °C (-40+176 °F) -40+120 °C (-40+248 °F)	C
- Choose option A, if no	-40+180°C (-40+356°F)	E
T output is desired	-20+60 °C (-4+140 °F) -20+80 °C (-4+176 °F)	F
	-20+120°C (-4+176°F) -20+120°C (-4+248°F)	G
	-20+180 °C (-4+356 °F)	i
	0+60 ℃ (+32+140 °F) 0+100 °C (+32+ 212 °F)	K
	0+120°C (+32248°F)	M
	0+180 °C (+32356 °F) -6060 °C (-76+140 °F)	N P
	Special :	x
2 Output units	Metric	
-	Non-metric	2
13 Option for module slot 1	No module	0
	Relay output RS-485 serial interface (galvanically isolated)	2
	LAN (Ethernet) interface + 2 m cable (RJ45)	4
14 Option for module slot 2	Data logger module No module	6] ₀
	Relay output	1
	3rd Analog output Choose also analog output signal for Ch3 Data logger module Not possible if the data logger module has already been	n chosen in item 13
5 Cable bushings	Cable gland M20 x 1.5	A
Note: The Universal AC power not connected	Conduit fitting NPT1/2" 8-pole connector with 5m cable	spare cable: 212142 C
through 8-pole connector!	8-pole counter connector equipped with screw terminals	spare connector: 212416 D
6 Transmitter installation	Bushing Set (Cable gland M20 x 1.5 and Conduit fitting NPT1/2") Normal mounting	
ranomitter motaliation	Wall mounting plate	item: 214829 1
	Pole installation kit	item: 215108 2
	Pole installation kit with rain shield DIN rail kit	item: 215094 4
17 Humidity sensor type	Chemical tolerant composite sensor HUMICAP180R0	C spare: HUMICAP180RC D
	Composite sensor with chemical purge HUMICAP180R0	IC spare: HUMICAP180RC F
	Composite sensor for fuel cell applications HUMICAP180R0	
0.0	Heated catalytic humicap sensor with chemical purge HUMICAP180VC	
8 Sensor protection	Heated catalytic humicap sensor with chemical purge HUMICAP180V0 PPS plastic grid & stainless steel netting	spare: DRW010281SP A
8 Sensor protection	Heated catalytic humicap sensor with chemical purge PPS plastic grid & stainless steel netting Sintered stainless steel filter Stainless steel grid	spare: DRW010281SP A spare: HM47280SP C spare: HM47453SP D
	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid & stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications	spare: DRW010281SP A spare: HM47280SP C spare: HM474S3SP D spare: 214848SP F
	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid 4 stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct installation kit (for RH probe)	spare: DFW010281SP A spare: HM47280SP C spare: HM4745SSP D spare: 21484SSP F A lem: 210697 C
9 Installation kit	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid a stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct instalation kit (for RH probe) Swagekok NPT 1/2"	Spare: DRW010281SP
9 Installation kit	Heated catalytic humicap sensor with chemical purge PPS plastic grid a stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct installation kit (for RH probe) Swagebok KISO 38" Swagebok KISO 38" Duct installation kit (RH + T probes)	Spare: DRW010281SP
9 Installation kit	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid 4 stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct installation kit (for RH probe) Swagebk NPT 1/2* Swagebk NPT 1/8* Swagebk N	spare: DFW010281SP A spare: HM47280SP C spare: HM4745SSP D spare: 214848SP F F A lem: 210697 C lem: SWG12NPT12 K lem: SWG12NPT12 K lem: 210697-215003 L lem: 210697-215003 P lem: 210637-215003 P lem: 210637-2150
9 Installation kit	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid 4 stainless steel netting Sintered stainless steel file Stainless steel file Membrane SST filter for fuel cell applications No kit Duct installation kit (for RH probe) Swagelok NPT 1/2" + Swagelok NPT 1/8" (RH+T) Swagelok ISO 38" + Swagelok NPT 1/8" (RH+T) Swagelok ISO 38" + Swagelok NPT 1/2"	spare: DFW010281SP A spare: HM47280SP C spare: HM4745SSP D Spare: 214848SP F F A lem: 210697 C lem: SWG12NPT12 K lem: SWG12NPT12 K lem: SWG12NPT12 S lem: 210697-215030 P lem: SWG12NF3038-SWG8ISO18 R lem: SWG12NS038+SWG8ISO18 R
9 Installation kit for probe	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid & stainless steel retting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct installation kit (flor RH probe) Swagebok ISO 38* Duct installation kit (RH + T probes) Swagebok ISO 38* Swagebok ISO 38* Swagebok NPT 1/2* + Swagebok NPT 1/8* (RH+T) Swagebok ISO 38* + Swagebok ISO 18* (RH+T) Swagebok ISO 12* Swagebok ISO 12* Syagebok ISO 10* S	Spare: DRW010281SP
9 Installation kit for probe	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PSP plastic grid 4 stainless steel netting Sintered stainless steel file Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct instalation kit (for RH probe) Swagelsk NPT 1/2* Swagelsk NPT 1/2* Swagelsk NPT 1/8* (RH+T probes) Swagelsk NPT 1/8* S	spare: DFW010281SP A spare: HM47280SP C spare: HM4745SSP D Spare: 214848SP F F A lem: 210697 C lem: SWG12NPT12 K lem: SWG12NPT12 K lem: SWG12NPT12 S lem: 210697-215030 P lem: SWG12NF3038-SWG8ISO18 R lem: SWG12NS038+SWG8ISO18 R
9 Installation kit for probe	Heated catalytic humicap sensor with chemical purge HUMICAP180V. PSP plastic grid 4 stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Oust instalation kit (for RH probe) Swagelok NPT 1/2* Swagelok NPT 1/2* Swagelok NPT 1/2* Swagelok NPT 1/8* (RH+T) Swagelok NPT 1/8* Swage	spare: DRW010281SP
19 installation kit for probe	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid & stainless steel retting Sintered stainless steel ritting Sintered stainless steel ritting Membrane SST filter for fuel cell applications No kit Duct installation kit (for RH probe) Swagebok KIP 11/2" Swagebok KIP 11/2" Swagebok KIP 11/2" + Swagebok NIPT 11/8" (RH+T) Swagebok KIP 11/2" + Swagebok NIPT 11/8" (RH+T) Swagebok KIP 50 8" + Swagebok KIP 50 1/8" (RH+T) Swagebok KIP 50 8" + Swagebok KIP 50 1/8" (RH+T) Swagebok KIP 11/2" + Swagebok KIP 11/8" (RH+T) Swagebok KIP 11/8" + Swagebok KIP 11/8" (RH+T)	spare: DFW010281SP
19 installation kit for probe	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid a stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct instalation kit (for RH probe) Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Swagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/8" (RH+T) S	spare: DFW010281SP
19 Installation kit for probe 10 Operating manual language	Heated catalytic humicap sensor with chemical purge HUMICAP180V. PSP plastic grid & stainless steel retting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Oust instalation kit (for Fuel cell applications No kit Swagelsk No 3:8" Duct instalation kit (RH + T probes) Swagelsk NSO 3:8" Swagelsk NSO 3:8" Swagelsk NSO 3:8" + Swagelsk NSO 1:8" (RH+T) Swagelsk NSO 3:8" + Swagelsk NSO 1:8" (RH+T) Swagelsk NSO 3:8" + Swagelsk NSO 1:8" (RH+T) Swagelsk NSO 3:8" Swagelsk NSO 3:8" + Swagelsk NSO 1:8" (RH+T) Swagelsk NSO 3:8" Splashidnect water protector for warmed RH&T and T probes No manual English German French Finnish Swedish Spanish	Spare: DFW010281SP
19 Installation kit for probe 20 Operating manual language pdf user's guides avalable at:	Heated catalytic humicap sensor with chemical purge HUMICAP180VI PPS plastic grid a stainless steel netting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct instalation kit (for RH probe) Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Swagebok KIP T1/8" (RH+T) Swagebok KIP T1/2" + Gwagebok KIP T1/8" (RH+T) Swagebok KIP T1/8" (RH+T) S	spare: DFW010281SP
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9 Installation kit for probe 10 Operating manual language pdf user's guides avalable at: www.vaisala.com/hmt330	Heated catalytic humicap sensor with chemical purge HUMICAP180V. PSP plastic grid & stainless steel retting Sintered stainless steel filter Stainless steel grid Membrane SST filter for fuel cell applications No kit Duct instalation kit (for RH probe) Swagetok NO 38* Duct instalation kit (for FI probes) Swagetok NO 38* Duct instalation kit (RH + T probes) Swagetok NO 18* Splanification water protector for warmed RH&T and T probes No manual English German French Finnish Swedish Syearies Japanese Russian Chinese No	Spare: DFW010281SP Spare: HMA7280SP Spare: HMA745SSP Spare: 214848SP Spare: 210697 Item: SWG12NPT12 Item: SWG12NPT12 Item: SWG12NPT12 Item: SWG12NF038 Item: 210697-215030 Item: SWG12NF038-SWG8ISO18 Item: SWG12NF038-SWG8ISO18 Item: SWG12NF038-SWG8ISO18 Item: SWG12NF012-SWGNPT18
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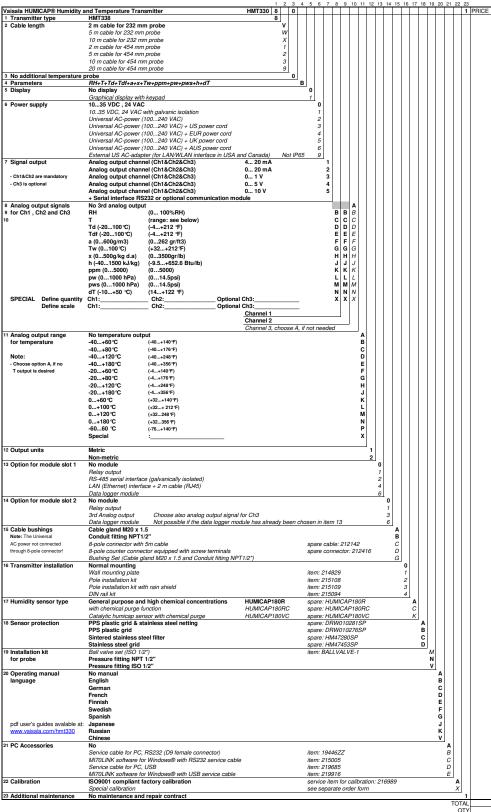
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Example of order code with typical settings:

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

HMT338 Humidity and Temperature Transmitter

For pressurized pipelines



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

End customer:

QTY TOTAL VALUE