



# VAISALA

Order form  
Purchaser

Valid from May 2014  
Order no.

## HMT311 Humidity and Temperature Transmitter

For wall mounting

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE	
Vaisala HUMICAP® Humidity and Temperature Transmitter		<b>HMT310</b>	<b>1</b>			<b>A</b>								<b>A</b>				<b>1</b>	<b>A</b>	
1 Transmitter type	HMT311																			
2 Parameters	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h																			
3 Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)					5														
4 Power supply	24 VDC																			
5 Analog output signal	Analog output channel (Ch1&Ch2) 4... 20 mA & RS232C Analog output channel (Ch1&Ch2) 0... 20 mA & RS232C Analog output channel (Ch1&Ch2) 1... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 10 V & RS232C																			
6 Analog output parameters	No analog outputs																			
7 for Ch1 and Ch2	RH (0... 100%RH) Temperature (choose T range below) Td (-40...60 °C) (-40...140 °F) Tdf (-40...60 °C) (-40...140 °F) a (0...160 g/m3) (0...69.9 gr/ft3) x (0...160 g/kg d.a) (0...1120 gr/lb) Tw (0...60 °C) (+32...+140 °F) ppm (0...5000) (0...5000) pw (0...1000 hPa) (0...14.5 psi) pws (0...1000 hPa) (0...14.5 psi) h (-40...1500 kJ/kg) (-9.5...+652.6 Btu/lb)																			
SPECIAL:	Parameters CH1: _____ CH2: _____																			
NOTE:	Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs																			
8 Analog output range for temperature	No range -60...+60 °C (-76...+140 °F) -40...+60 °C (-40...+140 °F) NOTE: -20...+60 °C (-4...+140 °F) - Choose A when T is not desired special range : _____ °C/°F																			
9 Output units	Metric Non-metric																			
10 Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector																			
11 Operating manual language	No manual English German Japanese see latest manuals online: <a href="http://www.vaisala.com/HMT310">www.vaisala.com/HMT310</a>																			
12 Probe type	Fixed																			
13 Humidity sensor type	General purpose Chemical purge Catalytic humicap sensor Catalytic humicap sensor with chemical purge																			
14 Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter																			
15 No additional temperature probe																				
16 Installation kit	No kit																			
17 Calibration certificate	No certificate At room temperature																			
standard service calibration: 216989																				

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

TOTAL  
QTY  
TOTAL VALUE

**Options and accessories:**

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

Example of order code with typical settings:

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

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



## HMT314 Humidity and Temperature Transmitter

For pressurized processes

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE
<b>Vaisala HUMICAP® Humidity and Temperature Transmitter</b>																		
<b>1 Transmitter type</b>	<b>HMT314</b>																	
<b>2 Parameters</b>	<b>RH+T</b>																	
	<b>RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h</b>																	
<b>3 Mounting plate</b>	<b>Standard mounting plate (recommended choice)</b>																	
	<b>Mounting plate without flange (not for outdoor use)</b>																	
<b>4 Power supply</b>	<b>24 VDC</b>																	
<b>5 Analog output signal</b>	<b>Analog output channel (Ch1&amp;Ch2)</b>	<b>4... 20 mA &amp; RS232C</b>																
	<b>Analog output channel (Ch1&amp;Ch2)</b>	<b>0... 20 mA &amp; RS232C</b>																
	<b>Analog output channel (Ch1&amp;Ch2)</b>	<b>1... 5 V &amp; RS232C</b>																
	<b>Analog output channel (Ch1&amp;Ch2)</b>	<b>0... 5 V &amp; RS232C</b>																
	<b>Analog output channel (Ch1&amp;Ch2)</b>	<b>0... 10 V &amp; RS232C</b>																
<b>6 Analog output parameters</b>	<b>No analog outputs</b>																	
<b>7 for Ch1 and Ch2</b>	<b>RH</b>	<b>(0... 100%RH)</b>																
	<b>Temperature</b>	<b>(choose T range below)</b>																
	<b>ppm (0...5000)</b>	<b>(0...5000)</b>																
	<b>pw (0...1000 hPa)</b>	<b>(0...14.5 psi)</b>																
	<b>pws (0...1000 hPa)</b>	<b>(0...14.5 psi)</b>																
	<b>h (-40...1500 kJ/kg)</b>	<b>(-9.5...+652.6 Btu/lb)</b>																
	<b>Td (-40...100 °C)</b>	<b>(-40...212 °F)</b>																
	<b>Tdf (-40...100 °C)</b>	<b>(-40...212 °F)</b>																
	<b>a (0...500 g/m3)</b>	<b>(0...218.5 gr/lf3)</b>																
	<b>x (0...500 g/kg d.a)</b>	<b>(0...3500 gr/lb)</b>																
	<b>Tw (0...100 °C)</b>	<b>(+32...+212 °F)</b>																
<b>SPECIAL:</b>		<b>Parameters CH1: _____ CH2: _____</b>																
<b>NOTE:</b>		<b>Scale for parameters CH1: _____ CH2: _____</b>																
	<b>- Choose A for both channels</b>																	
	<b>when you don't use analog outputs</b>																	
<b>8 Analog output range</b>	<b>No range</b>																	
<b>for temperature</b>	<b>-60...+60 °C</b>	<b>(-76...+140 °F)</b>																
	<b>-40...+60 °C</b>	<b>(-40...+140 °F)</b>																
	<b>-40...+120 °C</b>	<b>(-40...+248 °F)</b>																
	<b>-40...+180 °C</b>	<b>(-40...+356 °F)</b>																
	<b>-20...+60 °C</b>	<b>(-4...+140 °F)</b>																
	<b>-20...+80 °C</b>	<b>(-4...+176 °F)</b>																
	<b>-20...+120 °C</b>	<b>(-4...+248 °F)</b>																
	<b>0...+60 °C</b>	<b>(+32...+140 °F)</b>																
<b>NOTE:</b>	<b>0...+100 °C</b>	<b>(+32...+ 212 °F)</b>																
	<b>0...+120 °C</b>	<b>(+32...+248 °F)</b>																
<b>- Choose A when T</b>																		
<b>is not desired</b>	<b>special range : _____ °C/°F</b>																	
<b>9 Output units</b>	<b>Metric</b>																	
	<b>Non-metric</b>																	
<b>10 Cable connector</b>	<b>8-pole connector with 5m cable</b>	<b>spare 5 m cable: 212142</b>																
	<b>8-pole connector with 10 m cable</b>	<b>spare 10 m cable: 210964SP</b>																
	<b>8-pole counter connector</b>																	
<b>11 Operating manual</b>	<b>No manual</b>																	
<b>language</b>	<b>English</b>																	
	<b>German</b>																	
	<b>Japanese</b>	<b>see latest manuals online: www.vaisala.com/hmt310</b>																
<b>12 Probe cable length</b>	<b>with 2 m cable</b>																	
	<b>with 5 m cable</b>																	
	<b>with 10 m cable</b>																	
<b>13 Humidity sensor type</b>	<b>General purpose</b>	<b>HUMICAP180R</b>																
	<b>Chemical purge</b>	<b>HUMICAP180RC</b>																
	<b>Catalytic humicap sensor</b>	<b>HUMICAP180VHP</b>																
	<b>Catalytic humicap sensor with chemical purge</b>	<b>HUMICAP180VHPC</b>																
<b>14 Sensor protection</b>	<b>PPS plastic grid &amp; stainless steel netting</b>	<b>spare: DRW010281SP</b>																
	<b>PPS plastic grid</b>	<b>spare: DRW010276SP</b>																
	<b>Sintered stainless steel filter</b>	<b>spare: HM47280SP</b>																
<b>15 No additional temperature probe</b>																		
<b>16 Installation kit</b>	<b>Fitting body M22 x 1,5</b>	<b>spare: 17223SP</b>																
	<b>Fitting body NPT 1/2"</b>	<b>spare: 17225SP</b>																
<b>17 Calibration certificate</b>	<b>No certificate</b>																	
	<b>At room temperature</b>	<b>standard service calibration: 216989</b>																

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

Selections in italic are available at an extra price.

TOTAL	
QTY	
TOTAL VALUE	

**Options and accessories:**

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

Example of order code with typical settings:

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

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

## HMT315 Humidity and Temperature Transmitter

For high temperatures

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE												
Vaisala HUMICAP® Humidity and Temperature Transmitter		<b>HMT310</b>		<b>5</b>	<b>A</b>												<b>1</b>														
1	Transmitter type	<b>HMT315</b>																													
2	Parameters	<b>RH+T</b> RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h	<b>A</b>	<b>B</b>																											
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)			<b>5</b>	<b>6</b>																									
4	Power supply	24 VDC					<b>A</b>																								
5	Analog output signal	Analog output channel (Ch1&Ch2) 4... 20 mA & RS232C Analog output channel (Ch1&Ch2) 0... 20 mA & RS232C Analog output channel (Ch1&Ch2) 1... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 10 V & RS232C							<b>1</b>	<b>2</b>	<b>J</b>	<b>4</b>	<b>5</b>																		
6	Analog output parameters	No analog outputs						<b>A</b>	<b>A</b>																						
7	for Ch1 and Ch2	RH (0... 100%RH) Temperature (choose T range below) ppm (0...5000) (0...5000) pw (0...1000 hPa) (0...14.5 psi) pws (0...1000 hPa) (0...14.5 psi) h (-40...1500 kJ/kg) (-9.5...+652.6 Btu/lb) Td (-40...100 °C) (-40...212 °F) Tdf (-40...100 °C) (-40...212 °F) a (0...500 g/m3) (0...218.5 gr/ft3) x (0...500 g/kg d.a) (0...3500 gr/lb) Tw (0...100 °C) (+32...+212 °F)						<b>B</b>	<b>B</b>	<b>C</b>	<b>C</b>	<b>J</b>	<b>J</b>	<b>K</b>	<b>K</b>	<b>L</b>	<b>L</b>	<b>M</b>	<b>M</b>	<b>N</b>	<b>N</b>	<b>P</b>	<b>P</b>	<b>Q</b>	<b>Q</b>	<b>R</b>	<b>R</b>	<b>S</b>	<b>S</b>		
	SPECIAL:	Parameters CH1: _____ CH2: _____						<b>X</b>	<b>X</b>																						
	NOTE:	Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs																													
8	Analog output range for temperature	No range -60...+60 °C (-76...+140 °F) -40...+60 °C (-40...+140 °F) -40...+120 °C (-40...+248 °F) -40...+180 °C (-40...+356 °F) -20...+60 °C (-4...+140 °F) -20...+80 °C (-4...+176 °F) -20...+120 °C (-4...+248 °F) 0...+60 °C (+32...+140 °F) 0...+100 °C (+32...+ 212 °F) 0...+120 °C (+32...+248 °F) NOTE: - Choose A when T is not desired special range : _____ °C/°F						<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>K</b>	<b>M</b>	<b>X</b>												
9	Output units	Metric Non-metric								<b>1</b>	<b>2</b>																				
10	Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector										<b>4</b>	<b>7</b>	<b>5</b>																	
11	Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310										<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>																
12	Probe cable length	with 2 m cable with 5 m cable with 10 m cable										<b>H</b>	<b>J</b>	<b>K</b>																	
13	Humidity sensor type	General purpose Chemical purge Catalytic humicap sensor Catalytic humicap sensor with chemical purge	<b>HUMICAP180R</b> <i>HUMICAP180RC</i> <i>HUMICAP180VHP</i> <i>HUMICAP180VHPC</i>										<b>A</b>	<b>D</b>	<b>J</b>	<b>K</b>															
14	Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP										<b>A</b>	<b>B</b>	<b>C</b>																
15	No additional temperature probe																														
16	Installation kit	No kit Mounting flange for HMP305	spare: 210696														<b>A</b>	<b>D</b>													
17	Calibration certificate	No certificate At room temperature	standard service calibration: 216989															<b>1</b>	<b>2</b>												

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

TOTAL	
QTY	
TOTAL VALUE	

Options and accessories:

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

Example of order code with typical settings:

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

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



## HMT317 Humidity and Temperature Transmitter with warmed probe

For dewpoint measurement at high humidities

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

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

**Options and accessories:**

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

Example of order code with typical settings:

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

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

## HMT318 Humidity and Temperature Transmitter

For pressurized pipelines

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE	
<b>Vaisala HUMICAP® Humidity and Temperature Transmitter</b>		<b>HMT310</b>	<b>8</b>																<b>1</b>	
<b>1 Transmitter type</b>	HMT318		<b>8</b>																	
<b>2 Parameters</b>	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h																			
<b>3 Mounting plate</b>	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)																			
<b>4 Power supply</b>	24 VDC																			
<b>5 Analog output signal</b>	Analog output channel (Ch1&Ch2) 4... 20 mA & RS232C Analog output channel (Ch1&Ch2) 0... 20 mA & RS232C Analog output channel (Ch1&Ch2) 1... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 5 V & RS232C Analog output channel (Ch1&Ch2) 0... 10 V & RS232C																			
<b>6 Analog output parameters for Ch1 and Ch2</b>	No analog outputs RH (0... 100%RH) Temperature (choose T range below) ppm (0...5000) (0...5000) pw (0...1000 hPa) (0...14.5 psi) pws (0... 1000 hPa) (0...14.5 psi) h (-40...1500 kJ/kg) (-9.5...+652.6 Btu/lb) Td (-40...100 °C) (-40...212 °F) Tdf (-40...100 °C) (-40...212 °F) a (0...500 g/m3) (0...218.5 gr/lb) x (0...500 g/kg d.a) (0...3500 gr/lb) Tw (0...100 °C) (+32...+212 °F)																			
<b>SPECIAL:</b>	Parameters CH1: _____ CH2: _____																			
<b>NOTE:</b>	Scale for parameters CH1: _____ CH2: _____																			
	- Choose A for both channels when you don't use analog outputs																			
<b>8 Analog output range for temperature</b>	No range -60...+60 °C (-76...+140 °F) -40...+60 °C (-40...+140 °F) -40...+120 °C (-40...+248 °F) -40...+180 °C (-40...+356 °F) -20...+60 °C (-4...+140 °F) -20...+80 °C (-4...+176 °F) -20...+120 °C (-4...+248 °F) 0...+60 °C (+32...+140 °F) 0...+100 °C (+32...+ 212 °F) 0...+120 °C (+32...+248 °F) NOTE: - Choose A when T is not desired special range : _____ °C/°F																			
<b>9 Output units</b>	Metric Non-metric																			
<b>10 Cable connector</b>	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector																			
<b>11 Operating manual language</b>	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310																			
<b>12 Probe cable length</b>	2 m cable for standard probe 5 m cable for standard probe 10 m cable for standard probe 2 m cable for long probe 5 m cable for long probe 10 m cable for long probe																			
<b>13 Humidity sensor type</b>	General purpose HUMICAP180R Chemical purge HUMICAP180RC Catalytic humicap sensor HUMICAP180VHP Catalytic humicap sensor with chemical purge HUMICAP180VHPC																			
<b>14 Sensor protection</b>	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter																			
<b>15 No additional temperature probe</b>																				
<b>16 Installation kit</b>	Pressure fitting ISO 1/2" Pressure fitting NPT 1/2" Ball valve set (ISO1/2") for HMT318																			
<b>17 Calibration certificate</b>	No certificate At room temperature																			
	standard service calibration: 216989																			

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

TOTAL	
QTY	
TOTAL VALUE	

**Options and accessories:**  
 238607 USB Service cable  
 ASM211103-A Rain Shield  
 231865 Vaporized hydrogen peroxide (VHP) filter

Example of order code with typical settings:

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

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

