

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

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



Order form  
Purchaser \_\_\_\_\_

Valid from May 2014  
Order no. \_\_\_\_\_

# HMT313 Humidity and Temperature Transmitter

For general use

				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT310	<b>3</b>																		<b>1</b>	PRICE
1	Transmitter type	HMT313	<b>3</b>																			
2	Parameters	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h	A B																			
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)				5																
4	Power supply	24 VDC	A																			
5	Analog output signal	Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2)								1	2	J	4	5								
6	Analog output parameters	No analog outputs	A																			
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/lft3) x (0...500 g/kg d.a) (0...3500 gr/lb) Tw (0...100 °C) (+32...+212 °F)	A B C J K L M N P Q R S																			
	SPECIAL:	Parameters CH1: _____ CH2: _____	X	X																		
	NOTE:	Scale for parameters CH1: _____ CH2: _____																				
	- Choose A for both channels when you don't use analog outputs	Ch1 Ch2																				
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) special range : _____ °C/°F	A B C D E F G H J K M X																			
9	Output units	Metric Non-metric								1	2											
10	Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector																				
		spare 5 m cable: 212142 spare 10 m cable: 210964SP									4	7	5									
11	Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310													A	B	C	D				
12	probe cable length	with 2 m cable, +80 °C with 5 m cable, +80 °C with 10 m cable, +80 °C with 2 m cable, +120 °C with 5 m cable, +120 °C with 10 m cable, +120 °C													B	C	D	5	6	7		
13	Humidity sensor type	General purpose Chemical purge Catalytic humicap sensor Catalytic humicap sensor with chemical purge	HUMICAP180R HUMICAP180RC HUMICAP180VHP HUMICAP180VHPC	A												D	J	K				
14	Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP	A												B	C					
15	No additional temperature probe																					
16	Installation kit	No kit Duct installation kit Cable gland Agro, M20x1.5																				A B J
		spare: 210697 spare: HMP247CG																				
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:  
HMT310 3 A 5 A 1 B C C 1 4 B B A A 1 B 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																	
<b>Vaisala HUMICAP® Humidity and Temperature Transmitter</b>																	<b>HMT310</b>	<b>4</b>		<b>A</b>													<b>1</b>	<b>PRICE</b>
<b>1 Transmitter type</b>	<b>HMT314</b>																																	
<b>2 Parameters</b>	<b>RH+T</b>			<b>A</b>																														
	<b>RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h</b>			<b>B</b>																														
<b>3 Mounting plate</b>	<b>Standard mounting plate (recommended choice)</b>				<b>5</b>																													
	<b>Mounting plate without flange (not for outdoor use)</b>				<b>6</b>																													
<b>4 Power supply</b>	<b>24 VDC</b>					<b>A</b>																												
<b>5 Analog output signal</b>	<b>Analog output channel (Ch1&amp;Ch2)</b>						<b>1</b>																											
	<b>4... 20 mA &amp; RS232C</b>																																	
	<b>Analog output channel (Ch1&amp;Ch2)</b>						<b>2</b>																											
	<b>1... 5 V &amp; RS232C</b>																																	
	<b>Analog output channel (Ch1&amp;Ch2)</b>						<b>4</b>																											
	<b>0... 5 V &amp; RS232C</b>																																	
	<b>Analog output channel (Ch1&amp;Ch2)</b>						<b>5</b>																											
	<b>0... 10 V &amp; RS232C</b>																																	
<b>6 Analog output parameters</b>	<b>No analog outputs</b>							<b>A</b>	<b>A</b>																									
<b>7 for Ch1 and Ch2</b>	<b>RH</b>	(0... 100%RH)						<b>B</b>	<b>B</b>																									
	<b>Temperature</b>	(choose T range below)						<b>C</b>	<b>C</b>																									
	<b>ppm (0...5000)</b>	(0...5000)						<b>J</b>	<b>J</b>																									
	<b>pw (0...1000 hPa)</b>	(0...14.5 psi)						<b>K</b>	<b>K</b>																									
	<b>pws (0...1000 hPa)</b>	(0...14.5 psi)						<b>L</b>	<b>L</b>																									
	<b>h (-40...1500 kJ/kg)</b>	(-9.5...+652.6 Btu/lb)						<b>M</b>	<b>M</b>																									
	<b>Td (-40...100 °C)</b>	(-40...212 °F)						<b>N</b>	<b>N</b>																									
	<b>Tdf (-40...100 °C)</b>	(-40...212 °F)						<b>P</b>	<b>P</b>																									
	<b>a (0...500 g/m3)</b>	(0...218.5 gr/lb)						<b>Q</b>	<b>Q</b>																									
	<b>x (0...500 g/kg d.a.)</b>	(0...3500 gr/lb)						<b>R</b>	<b>R</b>																									
	<b>Tw (0...100 °C)</b>	(+32...+212 °F)						<b>S</b>	<b>S</b>																									
<b>SPECIAL:</b>			<b>Parameters CH1: _____ CH2: _____</b>					<b>X</b>	<b>X</b>																									
<b>NOTE:</b>	<b>Scale for parameters CH1: _____ CH2: _____</b>																																	
	<b>- Choose A for both channels when you don't use analog outputs</b>																																	
								<b>Ch1</b>																										
								<b>Ch2</b>																										
<b>8 Analog output range for temperature</b>	<b>No range</b>							<b>A</b>																										
	<b>-60...+60 °C</b>		(-76...+140 °F)					<b>B</b>																										
	<b>-40...+60 °C</b>		(-40...+140 °F)					<b>C</b>																										
	<b>-40...+120 °C</b>		(-40...+248 °F)					<b>D</b>																										
	<b>-40...+180 °C</b>		(-40...+356 °F)					<b>E</b>																										
	<b>-20...+60 °C</b>		(-4...+140 °F)					<b>F</b>																										
	<b>-20...+80 °C</b>		(-4...+176 °F)					<b>G</b>																										
	<b>-20...+120 °C</b>		(-4...+248 °F)					<b>H</b>																										
	<b>0...+60 °C</b>		(+32...+140 °F)					<b>J</b>																										
<b>NOTE:</b>	<b>0...+100 °C</b>		(+32...+ 212 °F)					<b>K</b>																										
	<b>- Choose A when T is not desired</b>							<b>M</b>																										
	<b>special range : _____ °C/°F</b>							<b>X</b>																										
<b>9 Output units</b>	<b>Metric</b>						<b>1</b>																											
	<b>Non-metric</b>						<b>2</b>																											
<b>10 Cable connector</b>	<i>8-pole connector with 5m cable</i>									<b>4</b>																								
	<i>8-pole connector with 10 m cable</i>									<b>7</b>																								
	<i>8-pole counter connector</i>									<b>5</b>																								
<b>11 Operating manual language</b>	<b>No manual</b>										<b>A</b>																							
	<b>English</b>										<b>B</b>																							
	<b>German</b>										<b>C</b>																							
	<b>Japanese</b>										<b>D</b>																							
	<i>see latest manuals online: www.vaisala.com/hmt310</i>																																	
<b>12 Probe cable length</b>	<b>with 2 m cable</b>										<b>E</b>																							
	<i>with 5 m cable</i>										<b>F</b>																							
	<i>with 10 m cable</i>										<b>G</b>																							
<b>13 Humidity sensor type</b>	<b>General purpose</b>										<b>A</b>																							
	<i>Chemical purge</i>										<b>D</b>																							
	<i>Catalytic humicap sensor</i>										<b>J</b>																							
	<i>Catalytic humicap sensor with chemical purge</i>										<b>K</b>																							
<b>14 Sensor protection</b>	<b>PPS plastic grid &amp; stainless steel netting</b>													<b>A</b>																				
	<i>PPS plastic grid</i>													<b>B</b>																				
	<i>Sintered stainless steel filter</i>													<b>C</b>																				
<b>15 No additional temperature probe</b>															<b>1</b>																			
<b>16 Installation kit</b>	<b>Fitting body M22 x 1,5</b>																	<b>K</b>																
	<b>Fitting body NPT 1/2"</b>																	<b>L</b>																
<b>17 Calibration certificate</b>	<b>No certificate</b>																		<b>1</b>															
	<b>At room temperature</b>																		<b>2</b>															
																	<i>standard service calibration: 216989</i>																	

**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  
ASM211103-A  
231865

USB Service cable  
Rain Shield  
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: \_\_\_\_\_



Order form  
Purchaser

Valid from May 2014  
Order no.

### HMT315 Humidity and Temperature Transmitter

For high temperatures

Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT310	5	A																	1				PRICE	
1	Transmitter type	HMT315	5	A																						
2	Parameters	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h	A	B																						
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) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2) Analog output channel (Ch1&Ch2)	1	2	J	4	5																			
6	Analog output parameters	No analog outputs			A	A																				
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/lb) x (0...500 g/kg d.a) (0...3500 gr/lb) Tw (0...100 °C) (+32...+212 °F)			B	B	C	C	J	J	K	K	L	L	M	M	N	N	P	P	Q	Q	R	R	S	S
	SPECIAL:	Parameters CH1: _____ CH2: _____			X	X																				
	NOTE:	Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs			Ch1	Ch2																				
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			A	B	C	D	E	F	G	H	J	K	M	X										
9	Output units	Metric Non-metric	1	2																						
10	Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector	spare 5 m cable: 212142 spare 10 m cable: 210964SP	4	7	5																				
11	Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310			A	B	C	D																		
12	Probe cable length	with 2 m cable with 5 m cable with 10 m cable			H	J	K																			
13	Humidity sensor type	General purpose Chemical purge Catalytic humicap sensor Catalytic humicap sensor with chemical purge	HUMICAP180R HUMICAP180RC HUMICAP180VHP HUMICAP180VHPC	A	D	J	K																			
14	Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP	A	B	C																				
15	No additional temperature probe																									
16	Installation kit	No kit Mounting flange for HMP305	spare: 210696																							
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 5 A 5 A 1 B C C 1 4 B H A A 1 A 2

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

## HMT317 Humidity and Temperature Transmitter

Standard probe

Vaisala HUMICAP® Humidity and Temperature Transmitter			HMT310	7			A												1				PRICE																
1	Transmitter type	HMT317		7																																			
2	Parameters	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h			A	B																																	
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)		5																																			
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						1																															
6	Analog output parameters	No analog outputs							A	A																													
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	C	C	J	J	K	K	L	L	M	M	N	N	P	P	Q	Q	R	R	S	S								
SPECIAL: Parameters CH1: _____ CH2: _____ X X																																							
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) special range : _____ °C/°F								A	B	C	D	E	F	G	H	J	K	M	X																		
NOTE: - Choose A when T is not desired																																							
9	Output units	Metric Non-metric																					1																
10	Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector	spare 5 m cable: 212142 spare 10 m cable: 210964SP																				4																
																							7																
																							5																
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>																				A																
																							B																
																							C																
																							D																
12	Probe cable length	with 2 m cable with 5 m cable with 10 m cable																					P																
																							Q																
																							R																
13	Humidity sensor type	General purpose HUMICAP180R Chemical purge HUMICAP180RC Catalytic humicap sensor HUMICAP180VHP Catalytic humicap sensor with chemical purge HUMICAP180VHPC																					A																
																							D																
																							J																
																							K																
14	Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP																				A																
																							B																
																							C																
15	No additional temperature probe																						1																
16	Installation kit	No kit Duct installation kit ISO 3/8 Swagelok® connector NPT 1/2" Swagelok® connector Cable gland Agro, M20x1.5	spare: 210697 spare: SWG12ISO38 spare: SWG12NPT12 spare: HMP247CG																				A																
																							B																
																							G																
																							H																
																							J																
17	Calibration certificate	No certificate At room temperature	standard service calibration: 216989																				1																
																							2																

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:

HMT310 1 A 5 A 1 B C C 1 4 B P A A 1 A 2

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>		<b>C</b>															
3	Mounting plate	Standard mounting plate (recommended choice) Mounting plate without flange (not for outdoor use)			5 6														
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																	
6	Analog output parameters	No analog outputs						<b>A</b>	<b>A</b>										
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) SPECIAL: Parameters CH1: _____ CH2: _____ NOTE: Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs								<b>N</b> <b>P</b> <b>R</b> <b>X</b>									
8	No temperature output								<b>A</b>										
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: www.vaisala.com/hmt310																	
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

Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT310	8	A												1				PRICE	
1 Transmitter type	HMT318		8																		
2 Parameters	RH+T RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h			A B																	
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						1 2 J 4 5														
6 Analog output parameters	No analog outputs							A A													
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 C J K L M N P Q R S													
SPECIAL:	Parameters CH1: _____ CH2: _____							X X													
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							A B C D E F G H J K M X													
9 Output units	Metric Non-metric									1 2											
10 Cable connector	8-pole connector with 5m cable 8-pole connector with 10 m cable 8-pole counter connector	spare 5 m cable: 212142 spare 10 m cable: 210964SP									4 7 5										
11 Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310																				A B C D
12 Probe cable length	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																				S T U V W Z
13 Humidity sensor type	General purpose Chemical purge Catalytic humicap sensor Catalytic humicap sensor with chemical purge	HUMICAP180R HUMICAP180RC HUMICAP180VHP HUMICAP180VHPC																			A D J K
14 Sensor protection	PPS plastic grid & stainless steel netting PPS plastic grid Sintered stainless steel filter	spare: DRW010281SP spare: DRW010276SP spare: HM47280SP																			A B C
15 No additional temperature probe																					1
16 Installation kit	Pressure fitting ISO 1/2" Pressure fitting NPT 1/2" Ball valve set (ISO1/2") for HMT318	spare: DRW212076SP spare: 212810SP spare: BALLVALVE-1																			M N E
17 Calibration certificate	No certificate At room temperature	standard service calibration: 216989																			1 2

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  
ASM211103-A  
231865USB Service cable  
Rain Shield  
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 S A A 1 M 2

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

## HMT310 Humidity and Temperature Transmitter series All models

Vaisala HUMICAP® Humidity and Temperature Transmitter		HMT310	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	PRICE	
1	Transmitter type	Wall mount transmitter Probe for general use Probe for pressurized processes Probe for high temperatures Probe for high humidities Probe with extended heating for fuel cells Probe for pressurized pipelines	1 3 4 5 7 F 8																		
2	Parameters	RH+T RH+T+Td+Td+Td+a+x+Tw+ppm+pw+pws+h Td+Td+xx with warmed RH probe	A B 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	1 2 J 4 5																		
6	Analog output parameters	No analog outputs	A																		
7	for Ch1 and Ch2	RH (0... 100%RH) all probes Temperature (choose T range below) all probes Td (-40...+60 °C) (-40...+140 °F) for HMP301 probe Td (-40...+60 °C) (-40...+140 °F) for HMP301 probe a (0...160 g/m3) (0...69.9 gr/ft3) for HMP301 probe x (0...160 g/kg d.a) (0...1120 gr/lb) for HMP301 probe Tw (0...+60 °C) (+32...+140 °F) for HMP301 probe ppm (0...5000) all probes pw (0...1000 hPa) (0...14.5 psi) all probes pws (0...1000 hPa) (0...14.5 psi) all probes h (-40...+1500 kJ/kg) (-9.5...+652.6 Btu/lb) all probes Td (-40...+100 °C) (-40...+212 °F) HMP303/304/305/306/307/308 Td (-40...+100 °C) (-40...+212 °F) HMP303/304/305/306/307/308 a (0...500 g/m3) (0...218.5 gr/ft3) HMP303/304/305/306/307/308 x (0...500 g/kg d.a) (0...3500 gr/lb) HMP303/304/305/306/307/308 Tw (0...+100 °C) (+32...+212 °F) HMP303/304/305/306/307/308	B C D E F G H J K L M N P Q R S																		
	SPECIAL:	Parameters CH1: _____ CH2: _____	X	X																	
	NOTE:	Scale for parameters CH1: _____ CH2: _____ - Choose A for both channels when you don't use analog outputs	Ch1 Ch2																		
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) special range : _____ °C/°F	A B C D E F G H J K M X																		
9	Output units	Metric Non-metric	1 2																		
10	Cable connector	8-pole connector with 5m cable spare 5 m cable: 212142 8-pole connector with 10 m cable spare 10 m cable: 210964SP 8-pole counter connector	4 7 5																		
11	Operating manual language	No manual English German Japanese see latest manuals online: www.vaisala.com/hmt310	A B C D																		
12	Probe type	HMP301 HMP303 with 2 m cable, +80 °C with 5 m cable, +80 °C with 10 m cable, +80 °C with 2 m cable, +120 °C with 5 m cable, +120 °C with 10 m cable, +120 °C HMP304 with 2 m cable with 5 m cable with 10 m cable HMP305 with 2 m cable with 5 m cable with 10 m cable HMP307 with 10 m cable with 2 m cable with 5 m cable with 10 m cable HMP308 with 2 m cable 178 mm probe with 5 m cable 178 mm probe with 10 m cable 178 mm probe with 2 m cable 400 mm probe with 5 m cable 400 mm probe with 10 m cable 400 mm probe	A B C D 5 6 7 E F G H J K P Q R S T U V W Z																		
13	Humidity sensor type	General purpose HUMICAP180R Chemical purge HUMICAP180RC Warmed probe with chemical purge HUMICAP180RC HMT317 Warmed probe with start-up purge only HUMICAP180RC HMT317 Catalytic humicap sensor HUMICAP180VHP Catalytic humicap sensor with chemical purge HUMICAP180VHPC Warmed probe without purge HUMICAP180RC HMT317 fuel cells (F mode)	A D F G J K E																		
14	Sensor protection	PPS plastic grid & stainless steel netting recommended for HMP303 and HMP307 PPS plastic grid recommended for HMP301 Sintered stainless steel filter recommended for HMP304/305/308 Membrane SST filter recommended for HMT317 F-fuel cell applications	A B C G																		
15	No additional temperature probe																				
16	Installation kit	No kit Duct installation kit for HMP303 and HMP307 Mounting flange for HMP305 Ball valve set for HMP308 ISO 3/8 Swagelok® connector for HMP307 NPT 1/2" Swagelok® connector for HMP307 Cable gland Agro, M20x1.5 for HMP303 and HMP307 Fitting body M22 x 1.5 FOR HMP304 Fitting body NPT 1/2" for HMP304 Pressure fitting ISO1/2" FOR HMP308 Pressure fitting NPT1/2" for HMP308	A B D E G H J K L M N																		
17	Calibration certificate	No certificate At room temperature	1 2																		

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	S	A	1	B	C	C	1	4	B	A	A	1	A	2	

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