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		**HMT310**	**1**			**A**								**A**			**1**	**A**		
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)**	**4... 20 mA & RS232C**					**1**													
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**					**2**													
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**					**J**													
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**					**4**													
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**					**5**													
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)	**(-40…140°F)**						**D**	**D**											
		Tdf (-40…60°C)	**(-40…140°F)**						**E**	**E**											
		a (0...160 g/m3)	**(0…69.9 gr/ft3)**						**F**	**F**											
		x (0...160 g/kg d.a)	**(0…1120 gr/lb)**						**G**	**G**											
		Tw (0…60°C)	**(+32...+140°F)**						**H**	**H**											
		ppm (0…5000)	**(0…5000)**						**J**	**J**											
		pw (0…1000 hPa)	**(0…14.5 psi)**						**K**	**K**											
		pws (0…1000 hPa)	**(0…14.5 psi)**						**L**	**L**											
		h (-40...1500 kJ/kg)	***(-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		**Ch1**																		
	when you don't use analog outputs		**Ch2**																		
8	**Analog output range**	**No range**									**A**										
	for temperature	**-60…+60°C**	**(-76…140°F)**								**B**										
		-40...+60°C	**(-40...+140°F)**								**C**										
	NOTE:	**-20...+60°C**	**(-4...+140°F)**								**F**										
	- Choose A when T	**0...+60°C**	**(+32...+140°F)**								**J**										
	is not desired	**special range : _____ °C/°F**									**X**										
9	**Output units**	**Metric**										**1**									
		Non-metric										**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*										*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*										*7*								
		8-pole counter connector											*5*								
11	**Operating manual**	**No manual**												**A**							
	language	**English**												**B**							
		German												**C**							
		Japanese	see latest manuals online: www.vaisala.com/HMT310											**D**							
12	**Probe type**	**Fixed**													**A**						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**													**A**					
		Chemical purge	*HUMICAP180RC*													*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*													*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*													*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*														**A**				
		PPS plastic grid	*spare: DRW010276SP*														**B**				
		Sintered stainless steel filter	*spare: HM47280SP*														**C**				
15	**No additional temperature probe**																	**1**			
16	**Installation kit**	**No kit**																	**A**		
17	**Calibration certificate**	**No certificate**																		**1**	
		At room temperature	*standard service calibration: 216989*																	***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: _____

VAISALA

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	PRICE
	Vaisala HUMICAP® Humidity and Temperature Transmitter		**HMT310**	**3**			**A**											**1**			
1	**Transmitter type**	**HMT313**		**3**																	
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)**	**4... 20 mA & RS232C**						**1**												
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**						**2**												
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**						**J**												
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**						**4**												
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**						**5**												
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**											
		ppm (0…5000)	**(0…5000)**						**J**	**J**											
		pw (0…1000 hPa)	**(0…14.5 psi)**						**K**	**K**											
		pws (0…1000 hPa)	**(0…14.5 psi)**						**L**	**L**											
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***						**M**	**M**											
		Td (-40...100 °C)	**(-40...212 °F)**						**N**	**N**											
		Tdf (-40...100 °C)	**(-40...212 °F)**						**P**	**P**											
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**						**Q**	**Q**											
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**						**R**	**R**											
		Tw (0...100 °C)	**(+32...+212 °F)**						**S**	**S**											
	SPECIAL:	Parameters CH1:_____ CH2:_____							**X**	**X**											
	NOTE:	Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels		**Ch1**																		
	when you don't use analog outputs		**Ch2**																		
8	**Analog output range**	**No range**									**A**										
	for temperature	**-60…+60 °C**	**(-76…140 °F)**								**B**										
		-40...+60 °C	**(-40...+140 °F)**								**C**										
		-40...+120 °C	**(-40...+248 °F)**								**D**										
		-40...+180 °C	**(-40...+356 °F)**								**E**										
		-20...+60 °C	**(-4...+140 °F)**								**F**										
		-20...+80 °C	**(-4...+176 °F)**								**G**										
		-20...+120 °C	**(-4...+248 °F)**								**H**										
		0...+60 °C	**(+32...+140 °F)**								**J**										
	NOTE:	**0...+100 °C**	**(+32...+ 212 °F)**								**K**										
	- Choose A when T	**0...+120 °C**	**(+32...+248 °F)**								**M**										
	is not desired	**special range : _____ °C/°F**									**X**										
9	**Output units**	**Metric**										**1**									
		Non-metric										**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*										*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*										*7*								
		8-pole counter connector											*5*								
11	**Operating manual**	**No manual**												**A**							
	language	**English**												**B**							
		German												**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310											**D**							
12	**probe cable length**	**with 2 m cable, +80 °C**													**B**						
		with 5 m cable, +80 °C													*C*						
		with 10 m cable, +80 °C													*D*						
		with 2 m cable, +120 °C													*5*						
		with 5 m cable, +120 °C													*6*						
		with 10 m cable, +120 °C													*7*						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**													**A**					
		Chemical purge	*HUMICAP180RC*													*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*													*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*													*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*														**A**				
		PPS plastic grid	*spare: DRW010276SP*														**B**				
		Sintered stainless steel filter	*spare: HM47280SP*														**C**				
15	**No additional temperature probe**																	**1**			
16	**Installation kit**	**No kit**																	**A**		
		Duct installation kit	*spare: 210697*																*B*		
		Cable gland Agro, M20x1.5	*spare: HMP247CG*																J		
17	**Calibration certificate**	**No certificate**																		**1**	
		At room temperature	*standard service calibration: 216989*																	***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	**3**	**A**	**5**	**A**	**1**	**B**	**C**	**C**	**1**	**4**	**B**	**B**	**A**	**A**	**1**	**B**	**2**

End customer: _____

VAISALA

Order form
Purchaser

Valid from May 2014
Order no.

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
	Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**	**4**			**A**										**1**			
1	**Transmitter type**	**HMT314**			**4**																
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)**	**4... 20 mA & RS232C**						**1**												
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**						**2**												
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**						**J**												
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**						**4**												
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**						**5**												
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**										
		ppm (0…5000)	**(0…5000)**							**J**	**J**										
		pw (0…1000 hPa)	**(0…14.5 psi)**							**K**	**K**										
		pws (0…1000 hPa)	**(0…14.5 psi)**							**L**	**L**										
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***							**M**	**M**										
		Td (-40...100°C)	**(-40...212°F)**							**N**	**N**										
		Tdf (-40...100°C)	**(-40...212°F)**							**P**	**P**										
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**							**Q**	**Q**										
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**							**R**	**R**										
		Tw (0...100°C)	**(+32...+212°F)**							**S**	**S**										
	SPECIAL:	Parameters CH1:_____ CH2:_____								**X**	**X**										
	NOTE:	Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels			**Ch1**																	
	when you don't use analog outputs			**Ch2**																	
8	**Analog output range**	**No range**										**A**									
	for temperature	**-60…+60°C**	**(-76…140°F)**									**B**									
		-40...+60°C	**(-40...+140°F)**									**C**									
		-40...+120°C	**(-40...+248°F)**									**D**									
		-40...+180°C	**(-40...+356°F)**									**E**									
		-20...+60°C	**(-4...+140°F)**									**F**									
		-20...+80°C	**(-4...+176°F)**									**G**									
		-20...+120°C	**(-4...+248°F)**									**H**									
		0...+60°C	**(+32...+140°F)**									**J**									
	NOTE:	**0...+100°C**	**(+32...+ 212°F)**									**K**									
	- Choose A when T	**0...+120°C**	**(+32...+248°F)**									**M**									
	is not desired	**special range : _____ °C/°F**										**X**									
9	**Output units**	**Metric**											**1**								
		Non-metric											**2**								
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*										*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*										*7*								
		8-pole counter connector											*5*								
11	**Operating manual**	**No manual**												**A**							
	language	**English**												**B**							
		German												**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310											**D**							
12	**Probe cable length**	**with 2 m cable**													**E**						
		with 5 m cable													*F*						
		with 10 m cable													*G*						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**													**A**					
		Chemical purge	*HUMICAP180RC*													*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*													*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*													*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*														**A**				
		PPS plastic grid	*spare: DRW010276SP*														**B**				
		Sintered stainless steel filter	*spare: HM47280SP*														**C**				
15	**No additional temperature probe**																	**1**			
16	**Installation kit**	**Fitting body M22 x 1,5**	*spare: 17223SP*																**K**		
		Fitting body NPT 1/2"	spare: 17225SP																**L**		
17	**Calibration certificate**	**No certificate**																		**1**	
		At room temperature	*standard service calibration: 216989*																	***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	**4**	**A**	**5**	**A**	**1**	**B**	**C**	**C**	**1**	**4**	**B**	**E**	**A**	**A**	**1**	**K**	**2**

End customer: _____

VAISALA

Order form
Purchaser

Valid from May 2014
Order no.

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		**HMT310**	**5**			**A**											**1**			
1	**Transmitter type**	**HMT315**		**5**																	
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)**	**4... 20 mA & RS232C**					**1**													
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**					**2**													
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**					**J**													
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**					**4**													
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**					**5**													
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**											
		ppm (0…5000)	**(0…5000)**						**J**	**J**											
		pw (0…1000 hPa)	**(0…14.5 psi)**						**K**	**K**											
		pws (0…1000 hPa)	**(0…14.5 psi)**						**L**	**L**											
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***						**M**	**M**											
		Td (-40...100 °C)	**(-40...212 °F)**						**N**	**N**											
		Tdf (-40...100 °C)	**(-40...212 °F)**						**P**	**P**											
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**						**Q**	**Q**											
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**						**R**	**R**											
		Tw (0...100 °C)	**(+32...+212 °F)**						**S**	**S**											
	SPECIAL:	Parameters CH1:_____ CH2:_____							**X**	**X**											
	NOTE:	Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels		**Ch1**																		
	when you don't use analog outputs		**Ch2**																		
8	**Analog output range**	**No range**									**A**										
	for temperature	**-60…+60 °C**	**(-76…140 °F)**								**B**										
		-40...+60 °C	**(-40...+140 °F)**								**C**										
		-40...+120 °C	**(-40...+248 °F)**								**D**										
		-40...+180 °C	**(-40...+356 °F)**								**E**										
		-20...+60 °C	**(-4...+140 °F)**								**F**										
		-20...+80 °C	**(-4...+176 °F)**								**G**										
		-20...+120 °C	**(-4...+248 °F)**								**H**										
		0...+60 °C	**(+32...+140 °F)**								**J**										
	NOTE:	**0...+100 °C**	**(+32...+ 212 °F)**								**K**										
	- Choose A when T	**0...+120 °C**	**(+32...+248 °F)**								**M**										
	is not desired	**special range : _____ °C/°F**									**X**										
9	**Output units**	**Metric**										**1**									
		Non-metric										**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*										*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*										*7*								
		8-pole counter connector											*5*								
11	**Operating manual**	**No manual**												**A**							
	language	**English**												**B**							
		German												**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310											**D**							
12	**Probe cable length**	**with 2 m cable**													**H**						
		with 5 m cable													*J*						
		with 10 m cable													*K*						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**													**A**					
		Chemical purge	*HUMICAP180RC*													*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*													*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*													*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*														**A**				
		PPS plastic grid	*spare: DRW010276SP*														**B**				
		Sintered stainless steel filter	*spare: HM47280SP*														**C**				
15	**No additional temperature probe**																	**1**			
16	**Installation kit**	**No kit**																	**A**		
		Mounting flange for HMP305	*spare: 210696*																*D*		
17	**Calibration certificate**	**No certificate**																		**1**	
		At room temperature	*standard service calibration: 216989*																	***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	**5**	**A**	**5**	**A**	**1**	**B**	**C**	**C**	**1**	**4**	**B**	**H**	**A**	**A**	**1**	**A**	**2**

End customer: _____

VAISALA

Order form
Purchaser

Valid from May 2014
Order no.

HMT317 Humidity and Temperature Transmitter

Standard probe

				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**	**7**			**A**											**1**			
1	**Transmitter type**	**HMT317**		**7**																	
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)**	**4... 20 mA & RS232C**					**1**													
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**					**2**													
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**					**J**													
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**					**4**													
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**					**5**													
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**											
		ppm (0…5000)	**(0…5000)**						**J**	**J**											
		pw (0…1000 hPa)	**(0…14.5 psi)**						**K**	**K**											
		pws (0…1000 hPa)	**(0…14.5 psi)**						**L**	**L**											
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***						**M**	**M**											
		Td (-40...100 °C)	**(-40...212 °F)**						**N**	**N**											
		Tdf (-40...100 °C)	**(-40...212 °F)**						**P**	**P**											
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**						**Q**	**Q**											
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**						**R**	**R**											
		Tw (0...100 °C)	**(+32...+212 °F)**						**S**	**S**											
	SPECIAL:	Parameters CH1:_____ CH2:_____							**X**	**X**											
	NOTE:	Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels		**Ch1**																		
	when you don't use analog outputs		**Ch2**																		
8	**Analog output range**	**No range**									**A**										
	for temperature	**-60…+60 °C**	**(-76…140 °F)**								**B**										
		-40...+60 °C	**(-40...+140 °F)**								**C**										
		-40...+120 °C	**(-40...+248 °F)**								**D**										
		-40...+180 °C	**(-40...+356 °F)**								**E**										
		-20...+60 °C	**(-4...+140 °F)**								**F**										
		-20...+80 °C	**(-4...+176 °F)**								**G**										
		-20...+120 °C	**(-4...+248 °F)**								**H**										
		0...+60 °C	**(+32...+140 °F)**								**J**										
	NOTE:	**0...+100 °C**	**(+32...+ 212 °F)**								**K**										
	- Choose A when T	**0...+120 °C**	**(+32...+248 °F)**								**M**										
	is not desired	**special range : _____ °C/°F**									**X**										
9	**Output units**	**Metric**										**1**									
		Non-metric										**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*										*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*										*7*								
		8-pole counter connector											*5*								
11	**Operating manual**	**No manual**												**A**							
	language	**English**												**B**							
		German												**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310											**D**							
12	**Probe cable length**	**with 2 m cable**													**P**						
		with 5 m cable													*Q*						
		with 10 m cable													*R*						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**													**A**					
		Chemical purge	*HUMICAP180RC*													*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*													*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*													*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*														**A**				
		PPS plastic grid	*spare: DRW010276SP*														**B**				
		Sintered stainless steel filter	*spare: HM47280SP*														**C**				
15	**No additional temperature probe**																	**1**			
16	**Installation kit**	**No kit**																	**A**		
		Duct installation kit	*spare: 210697*																*B*		
		ISO 3/8 Swagelok® connector	*spare: SWG12ISO38*																*G*		
		NPT 1/2" Swagelok® connector	*spare: SWG12NPT12*																*H*		
		Cable gland Agro, M20x1.5	*spare: HMP247CG*																J		
17	**Calibration certificate**	**No certificate**																		**1**	
		At room temperature	*standard service calibration: 216989*																	***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**	**P**	**A**	**A**	**1**	**A**	**2**

End customer: _____

VAISALA

Order form
Purchaser

Valid from May 2014
Order no.

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	
	Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**		**C**		**A**				**A**							**1**			PRICE
1	**Transmitter type**	*HMT317*			*7*																	
		Fuel cell model with extended heating			*F*																	
2	**Parameters**	***Td+Tdf+x***				***C***																
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)**	**4... 20 mA & RS232C**						**1**													
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**						**2**													
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**						**J**													
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**						**4**													
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**						**5**													
6	**Analog output parameters**	**No analog outputs**								**A**	**A**											
7	**for Ch1 and Ch2**	**Td (-40...100°C)**	**(-40...212°F)**							**N**	**N**											
		Tdf (-40...100°C)	**(-40...212°F)**							**P**	**P**											
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**							**R**	**R**											
	SPECIAL:		Parameters CH1:_____ CH2:_____							**X**	**X**											
	NOTE:		Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels			**Ch1**																		
	when you don't use analog outputs			**Ch2**																		
8	**No temperature output**											**A**										
9	**Output units**	**Metric**											**1**									
		Non-metric											**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*											*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*											*7*								
		8-pole counter connector												*5*								
11	**Operating manual**	**No manual**													**A**							
	language	**English**													**B**							
		German													**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310												**D**							
12	**Probe cable length**	**with 2 m cable**														**P**						
		with 5 m cable														*Q*						
		with 10 m cable														*R*						
13	**Humidity sensor type**	*Chemical purge*	*HUMICAP180RC*	*recommended choice*													*F*					
		Start-up purge only	*HUMICAP180RC*														*G*					
		No purge	*HUMICAP180RC*	*recommended for F model*													*E*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*														*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*															**A**				
		PPS plastic grid	*spare: DRW010276SP*															**B**				
		Sintered stainless steel filter	*spare: HM47280SP*															**C**				
		Membrane SST filter	recommended for fuel cell applications (F model)															**G**				
15	**No additional temperature probe**																		**1**			
16	**Installation kit**	**No kit**																		**A**		
		Duct installation kit	*spare: 210697*																	*B*		
		ISO 3/8 Swagelok® connector	*spare: SWG12ISO38*																	*G*		
		NPT 1/2" Swagelok® connector	*spare: SWG12NPT12*																	*H*		
		Cable gland Agro, M20x1.5	*spare: HMP247CG*																	J		
17	**Calibration certificate**	**No certificate**																			**1**	
		At room temperature	*standard service calibration: 216989*																		***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**	**P**	**F**	**A**	**1**	**A**	**2**

End customer: _____

VAISALA

Order form
Purchaser

Valid from May 2014
Order no.

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
	Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**	**8**			**A**											**1**			
1	**Transmitter type**	**HMT318**			**8**																	
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)**	**4... 20 mA & RS232C**						**1**													
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**						**2**													
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**						**J**													
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**						**4**													
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**						**5**													
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**											
		ppm (0…5000)	**(0…5000)**							**J**	**J**											
		pw (0…1000 hPa)	**(0…14.5 psi)**							**K**	**K**											
		pws (0…1000 hPa)	**(0…14.5 psi)**							**L**	**L**											
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***							**M**	**M**											
		Td (-40...100°C)	**(-40...212°F)**							**N**	**N**											
		Tdf (-40...100°C)	**(-40...212°F)**							**P**	**P**											
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**							**Q**	**Q**											
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**							**R**	**R**											
		Tw (0...100°C)	**(+32...+212°F)**							**S**	**S**											
	SPECIAL:		Parameters CH1:_____ CH2:_____							**X**	**X**											
	NOTE:		Scale for parameters CH1:_____ CH2:_____																			
	- Choose A for both channels			**Ch1**																		
	when you don't use analog outputs			**Ch2**																		
8	**Analog output range**	**No range**										**A**										
	for temperature	**-60…+60°C**	**(-76…140°F)**									**B**										
		-40...+60°C	**(-40...+140°F)**									**C**										
		-40...+120°C	**(-40...+248°F)**									**D**										
		-40...+180°C	**(-40...+356°F)**									**E**										
		-20...+60°C	**(-4...+140°F)**									**F**										
		-20...+80°C	**(-4...+176°F)**									**G**										
		-20...+120°C	**(-4...+248°F)**									**H**										
		0...+60°C	**(+32...+140°F)**									**J**										
	NOTE:	**0...+100°C**	**(+32...+ 212°F)**									**K**										
	- Choose A when T	**0...+120°C**	**(+32...+248°F)**									**M**										
	is not desired	**special range : _____ °C/°F**										**X**										
9	**Output units**	**Metric**											**1**									
		Non-metric											**2**									
10	**Cable connector**	*8-pole connector with 5m cable*	*spare 5 m cable: 212142*											*4*								
		8-pole connector with 10 m cable	*spare 10 m cable: 210964SP*											*7*								
		8-pole counter connector												*5*								
11	**Operating manual**	**No manual**													**A**							
	language	**English**													**B**							
		German													**C**							
		Japanese	see latest manuals online: www.vaisala.com/hmt310												**D**							
12	**Probe cable length**	**2 m cable for standard probe**														**S**						
		5 m cable for standard probe														*T*						
		10 m cable for standard probe														*U*						
		2 m cable for long probe														*V*						
		5 m cable for long probe														*W*						
		10 m cable for long probe														*Z*						
13	**Humidity sensor type**	**General purpose**	**HUMICAP180R**														**A**					
		Chemical purge	*HUMICAP180RC*														*D*					
		Catalytic humicap sensor	*HUMICAP180VHP*														*J*					
		Catalytic humicap sensor with chemical purge	*HUMICAP180VHPC*														*K*					
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	*spare: DRW010281SP*															**A**				
		PPS plastic grid	*spare: DRW010276SP*															**B**				
		Sintered stainless steel filter	*spare: HM47280SP*															**C**				
15	**No additional temperature probe**																		**1**			
16	**Installation kit**	**Pressure fitting ISO 1/2"**	*spare: DRW212076SP*																	**M**		
		Pressure fitting NPT 1/2"	*spare: 212810SP*																	**N**		
		Ball valve set (ISO1/2") for HMT318	*spare: BALLVALVE-1*																	*E*		
17	**Calibration certificate**	**No certificate**																			**1**	
		At room temperature	*standard service calibration: 216989*																		***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**	**S**	**A**	**A**	**1**	**M**	**2**

End customer: _____

VAISALA

Order form | Valid from May 2014
Purchaser | Order no.

HMT310 Humidity and Temperature Transmitter series
All models

Position	1	2	3	4	5
				A	

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Vaisala HUMICAP® Humidity and Temperature Transmitter HMT310				A											1			PRICE

No.	Item	Option	Range / detail	Note	Code
1	**Transmitter type**	*Wall mount transmitter*			*1*
		Probe for general use			*3*
		Probe for pressurized processes			*4*
		Probe for high temperatures			*5*
		Probe for high humidities			*7*
		Probe with extended heating for fuel cells			*F*
		Probe for pressurized pipelines			*8*
2	**Parameters**	**RH+T**			**A**
		RH+T+Td+Tdf+a+x+Tw+ppm+pw+pws+h			**B**
		Td+Tdf+x	***with warmed RH probe***		***C***
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)**	**4... 20 mA & RS232C**		**1**
		Analog output channel (Ch1&Ch2)	**0... 20 mA & RS232C**		**2**
		Analog output channel (Ch1&Ch2)	**1... 5 V & RS232C**		**J**
		Analog output channel (Ch1&Ch2)	**0... 5 V & RS232C**		**4**
		Analog output channel (Ch1&Ch2)	**0... 10 V & RS232C**		**5**
6	**Analog output parameters**	**No analog outputs**			**A A**
7	**for Ch1 and Ch2**	**RH**	**(0... 100%RH)**	*all probes*	**B B**
		Temperature	**(choose T range below)**	*all probes*	**C C**
		Td (-40...60°C)	**(-40...140°F)**	*for HMP301 probe*	**D D**
		Tdf (-40...60°C)	**(-40...140°F)**	*for HMP301 probe*	**E E**
		a (0...160 g/m3)	**(0...69.9 gr/ft3)**	*for HMP301 probe*	**F F**
		x (0...160 g/kg d.a)	**(0...1120 gr/lb)**	*for HMP301 probe*	**G G**
		Tw (0...60°C)	**(+32...+140°F)**	*for HMP301 probe*	**H H**
		ppm (0...5000)	**(0...5000)**	*all probes*	**J J**
		pw (0...1000 hPa)	**(0...14.5 psi)**	*all probes*	**K K**
		pws (0...1000 hPa)	**(0...14.5 psi)**	*all probes*	**L L**
		h (-40...1500 kJ/kg)	***(-9.5...+652.6 Btu/lb)***	*all probes*	**M M**
		Td (-40...100°C)	**(-40...212°F)**	*HMP303/304/305/306/307/308*	**N N**
		Tdf (-40...100°C)	**(-40...212°F)**	*HMP303/304/305/306/307/308*	**P P**
		a (0...500 g/m3)	**(0...218.5 gr/ft3)**	*HMP303/304/305/306/307/308*	**Q Q**
		x (0...500 g/kg d.a)	**(0...3500 gr/lb)**	*HMP303/304/305/306/307/308*	**R R**
		Tw (0...100°C)	**(+32...+212°F)**	*HMP303/304/305/306/307/308*	**S S**
	SPECIAL:	Parameters CH1:______________ CH2:________________			**X X**
	NOTE:	Scale for parameters CH1:______________ CH2:________________			
	- Choose A for both channels			**Ch1**	
	when you don't use analog outputs			**Ch2**	
8	**Analog output range**	**No range**			**A**
	for temperature	**-60...+60°C**	**(-76...140°F)**		**B**
		-40...+60°C	**(-40...+140°F)**		**C**
		-40...+120°C	**(-40...+248°F)**		**D**
		-40...+180°C	**(-40...+356°F)**		**E**
		-20...+60°C	**(-4...+140°F)**		**F**
		-20...+80°C	**(-4...+176°F)**		**G**
		-20...+120°C	**(-4...+248°F)**		**H**
		0...+60°C	**(+32...+140°F)**		**J**
	NOTE:	**0...+100°C**	**(+32...+ 212°F)**		**K**
	- Choose A when T	**0...+120°C**	**(+32...+248°F)**		**M**
	is not desired	**special range : _________**	**°C/°F**		**X**
9	**Output units**	**Metric**			**1**
		Non-metric			**2**
10	**Cable connector**	*8-pole connector with 5m cable*		*spare 5 m cable: 212142*	*4*
		8-pole connector with 10 m cable		*spare 10 m cable: 210964SP*	*7*
		8-pole counter connector			*5*
11	**Operating manual**	**No manual**			**A**
	language	**English**			**B**
		German			**C**
		Japanese	see latest manuals online: www.vaisala.com/hmt310		**D**
12	**Probe type**	**HMP301**			**A**
		HMP303	**with 2 m cable, +80°C**		**B**
			with 5 m cable, +80°C		*C*
			with 10 m cable, +80°C		*D*
			with 2 m cable, +120°C		**5**
			with 5 m cable, +120°C		*6*
			with 10 m cable, +120°C		*7*
		HMP304	**with 2 m cable**		**E**
			with 5 m cable		*F*
			with 10 m cable		*G*
		HMP305	**with 2 m cable**		**H**
			with 5 m cable		*J*
			with 10 m cable		*K*
		HMP307	**with 2 m cable**		**P**
			with 5 m cable		*Q*
			with 10 m cable		*R*
		HMP308	**with 2 m cable**	178 mm probe	**S**
			with 5 m cable	178 mm probe	*T*
			with 10 m cable	178 mm probe	*U*
			with 2 m cable	*400 mm probe*	*V*
			with 5 m cable	*400 mm probe*	*W*
			with 10 m cable	*400 mm probe*	*Z*
13	**Humidity sensor type**	**General purpose**		**HUMICAP180R**	**A**
		Chemical purge		*HUMICAP180RC*	*D*
		Warmed probe with chemical purge		*HUMICAP180RC HMT317*	*F*
		Warmed probe with start-up purge only		*HUMICAP180RC HMT317*	*G*
		Catalytic humicap sensor		*HUMICAP180VHP*	*J*
		Catalytic humicap sensor with chemical purge		*HUMICAP180VHPC*	*K*
		Warmed probe without purge		*HUMICAP180RC HMT317 fuel cells (F model)*	*E*
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**		recommended for HMP303 and HMP307	**A**
		PPS plastic grid		recommended for HMP301	**B**
		Sintered stainless steel filter		recommended for HMP304/305/308	**C**
		Membrane SST filter		recommended for HMT317 F /fuel cell applications	*G*
15	**No additional temperature probe**				**1**
16	**Installation kit**	**No kit**			**A**
		Duct installation kit for HMP303 and HMP307			*B*
		Mounting flange for HMP305			*D*
		Ball valve set for HMP308			*E*
		ISO 3/8 Swagelok® connector for HMP307			*G*
		NPT 1/2" Swagelok® connector for HMP307			*H*
		Cable gland Agro, M20x1.5 for HMP303 and HMP307			*J*
		Fitting body M22 x 1,5 FOR HMP304			*K*
		Fitting body NPT 1/2" for HMP304			*L*
		Pressure fitting ISO1/2" FOR HMP308			*M*
		Pressure fitting NPT1/2" for HMP308			*N*
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:______________________________