VAISALA

Order form
Purchaser _____

Valid from March 2012
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	
Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**	**1**			**A**											**1**	**A**		PRICE
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					**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**													
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℃)	**(-40…140℉)**							**D**	**D**											
	Tdf (-40…60℃)	**(-40…140℉)**							**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℃)	**(+32...+140℉)**							**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℃**	**(-76…140℉)**									**B**										
	-40...+60℃	**(-40...+140℉)**									**C**										
NOTE:	**-20...+60℃**	**(-4...+140℉)**									**F**										
- Choose A when T	**0...+60℃**	**(+32...+140℉)**									**J**										
is not desired	**special range : _____ ℃/° F**										**X**										
9 Output units	**Metric**											**1**									
	Non-metric											**2**									
10 Cable connector	*8-pole connector with 5m cable*												*4*								
	8-pole counter connector												*5*								
11 Operating manual	**No manual**													**A**							
language	**English**													**B**							
	German													**C**							
	Japanese													**D**							
12 Probe type	**Fixed**														**A**						
13 Humidity sensor type	**General purpose**		**HUMICAP180R**													**A**					
	Chemical purge		*HUMICAP180RC*													*D*					
14 Sensor protection	**PPS plastic grid & stainless steel netting**																**A**				
	PPS plastic grid		recommended for HMT311														**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.

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Order form
Purchaser _____

Valid from March 2012
Order no. _____

HMT313 Humidity and Temperature Transmitter

For general use

	Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**	**3**			**A**												**1**				PRICE
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					**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**															
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℃)	**(-40...212℉)**							**N**	**N**													
		Tdf (-40...100℃)	**(-40...212℉)**							**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℃)	**(+32...+212℉)**							**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℃**	**(-76…140℉)**									**B**												
		-40...+60℃	**(-40...+140℉)**									**C**												
		-40...+120℃	**(-40...+248℉)**									**D**												
		-40...+180℃	**(-40...+356℉)**									**E**												
		-20...+60℃	**(-4...+140℉)**									**F**												
		-20...+80℃	**(-4...+176℉)**									**G**												
		-20...+120℃	**(-4...+248℉)**									**H**												
		0...+60℃	**(+32...+140℉)**									**J**												
	NOTE:	**0...+100℃**	**(+32...+ 212℉)**									**K**												
	- Choose A when T	**0...+120℃**	**(+32...+248℉)**									**M**												
	is not desired	**special range : _____ ℃/° F**										**X**												
9	**Output units**	**Metric**											**1**											
		Non-metric											**2**											
10	**Cable connector**	*8-pole connector with 5m cable*												*4*										
		8-pole counter connector												*5*										
11	**Operating manual**	**No manual**													**A**									
	language	**English**													**B**									
		German													**C**									
		Japanese													**D**									
12	**probe cable length**	**with 2 m cable, +80℃**														**B**								
		with 5 m cable, +80℃														*C*								
		with 10 m cable, +80℃														*D*								
		with 2 m cable, +120℃														*5*								
		with 5 m cable, +120℃														*6*								
		with 10 m cable, +120℃														*7*								
13	**Humidity sensor type**	**General purpose**		**HUMICAP180R**													**A**							
		Chemical purge		*HUMICAP180RC*													*D*							
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**		recommended for HMT313														**A**						
		PPS plastic grid																**B**						
		Sintered stainless steel filter																**C**						
15	**No additional temperature probe**																		**1**					
16	**Installation kit**	**No kit**																		**A**				
		Duct installation kit																		*B*				
		Cable gland Agro, M20x1.5																		J				
17	**Calibration certificate**	**No certificate**																			**1**			
		At room temperature																			***2***			
																						TOTAL		
																						QTY		
																						TOTAL VALUE		

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Selections in italic are available at an extra price.

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Order form
Purchaser _____

Valid from February 2012
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	
Vaisala HUMICAP® Humidity and Temperature Transmitter			**HMT310**	**4**			**A**											**1**	**A**		PRICE
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					**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**													
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℃)	**(-40...212℉)**							**N**	**N**											
	Tdf (-40...100℃)	**(-40...212℉)**							**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℃)	**(+32...+212℉)**							**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℃**	**(-76…140℉)**									**B**										
	-40...+60℃	**(-40...+140℉)**									**C**										
	-40...+120℃	**(-40...+248℉)**									**D**										
	-40...+180℃	**(-40...+356℉)**									**E**										
	-20...+60℃	**(-4...+140℉)**									**F**										
	-20...+80℃	**(-4...+176℉)**									**G**										
	-20...+120℃	**(-4...+248℉)**									**H**										
	0...+60℃	**(+32...+140℉)**									**J**										
NOTE:	**0...+100℃**	**(+32...+ 212℉)**									**K**										
- Choose A when T	**0...+120℃**	**(+32...+248℉)**									**M**										
is not desired	**special range : _____ ℃/° F**										**X**										
9 Output units	**Metric**											**1**									
	Non-metric											**2**									
10 Cable connector	*8-pole connector with 5m cable*												*4*								
	8-pole counter connector												*5*								
11 Operating manual	**No manual**													**A**							
language	**English**													**B**							
	German													**C**							
	Japanese													**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*					
14 Sensor protection	**PPS plastic grid & stainless steel netting**																**A**				
	PPS plastic grid																**B**				
	Sintered stainless steel filter		recommended for HMT314														**C**				
15 No additional temperature probe																		**1**			
16 Installation kit	**Fitting body M22 x 1,5**																		**K**		
	Fitting body NPT 1/2"																		**L**		
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.

End customer: _____

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Order form
Purchaser ______________________

Valid from February 2012
Order no. ______________________

HMT315 Humidity and Temperature Transmitter

For high temperatures

Order code positions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

	Vaisala HUMICAP® Humidity and Temperature Transmitter			HMT310	5			A										1			PRICE

No.	Item	Option			Code
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			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
6 / 7	Analog output parameters for Ch1 and Ch2	**No analog outputs**			A A
		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 for temperature	**No range**			A
		-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*			*4*
		8-pole counter connector			*5*
11	Operating manual language	**No manual**			A
		English			B
		German			C
		Japanese			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*
14	Sensor protection	**PPS plastic grid & stainless steel netting**			A
		PPS plastic grid			B
		Sintered stainless steel filter		recommended for HMT315	C
15	No additional temperature probe				1
16	Installation kit	**No kit**			A
		Mounting flange for HMP305			*D*
17	Calibration certificate	**No certificate**			1
		At room temperature			*2*

TOTAL	
QTY	
TOTAL VALUE	

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End customer: ____

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Order form
Purchaser ____________________

Valid from February 2012
Order no. ____________________

HMT317 Humidity and Temperature Transmitter

Standard probe

Order code: HMT310 | 1: 7 | 2: | 3: | 4: A | 5: | 6: | 7: | 8: | 9: | 10: | 11: | 12: | 13: | 14: | 15: 1 | 16: | 17: | PRICE

No.	Item	Selection	Range / Note	Code
	Vaisala HUMICAP® Humidity and Temperature Transmitter		**HMT310**	
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		**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**
6	**Analog output parameters**	**No analog outputs**		**A** (Ch1) / **A** (Ch2)
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*		*4*
		8-pole counter connector		*5*
11	**Operating manual**	**No manual**		**A**
	language	**English**		**B**
		German		**C**
		Japanese		**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*
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**	recommended for HMT317	**A**
		PPS plastic grid		**B**
		Sintered stainless steel filter		**C**
15	**No additional temperature probe**			**1**
16	**Installation kit**	**No kit**		**A**
		Duct installation kit		*B*
		ISO 3/8 Swagelok® connector		*G*
		NPT 1/2" Swagelok® connector		*H*
		Cable gland Agro, M20x1.5		*J*
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.

End customer: ____

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Order form
Purchaser _____

Valid from February 2012
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													**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**												
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*																				*4*							
		8-pole counter connector																				*5*							
11	**Operating manual**	**No manual**																					**A**						
	language	**English**																					**B**						
		German																					**C**						
		Japanese																					**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**															**F**				
		Start-up purge only								**HUMICAP180RC**															**G**				
		No purge								**HUMICAP180RC**															**E**				
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**								recommended for HMT317																**A**			
		PPS plastic grid																								**B**			
		Sintered stainless steel filter																								**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																										*B*	
		ISO 3/8 Swagelok® connector																										*G*	
		NPT 1/2" Swagelok® connector																										*H*	
		Cable gland Agro, M20x1.5																										J	
17	**Calibration certificate**	**No certificate**																											**1**
		At room temperature																											***2***
																												TOTAL	
																												QTY	
																												TOTAL VALUE	

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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**				**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					**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**															
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℃)	**(-40...212℉)**							**N**	**N**													
		Tdf (-40...100℃)	**(-40...212℉)**							**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℃)	**(+32...+212℉)**							**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℃**	**(-76…140℉)**									**B**												
		-40...+60℃	**(-40...+140℉)**									**C**												
		-40...+120℃	**(-40...+248℉)**									**D**												
		-40...+180℃	**(-40...+356℉)**									**E**												
		-20...+60℃	**(-4...+140℉)**									**F**												
		-20...+80℃	**(-4...+176℉)**									**G**												
		-20...+120℃	**(-4...+248℉)**									**H**												
		0...+60℃	**(+32...+140℉)**									**J**												
	NOTE:	**0...+100℃**	**(+32...+ 212℉)**									**K**												
	- Choose A when T	**0...+120℃**	**(+32...+248℉)**									**M**												
	is not desired	**special range : _____ ℃/° F**										**X**												
9	**Output units**	**Metric**											**1**											
		Non-metric											**2**											
10	**Cable connector**	*8-pole connector with 5m cable*												*4*										
		8-pole counter connector												*5*										
11	**Operating manual**	**No manual**													**A**									
	language	**English**													**B**									
		German													**C**									
		Japanese													**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*							
14	**Sensor protection**	**PPS plastic grid & stainless steel netting**																**A**						
		PPS plastic grid																**B**						
		Sintered stainless steel filter		recommended														**C**						
15	**No additional temperature probe**																			**1**				
16	**Installation kit**	**Pressure fitting ISO 1/2"**																			**M**			
		Pressure fitting NPT 1/2"																			**N**			
		Ball valve set (ISO1/2") for HMT318																			*E*			
17	**Calibration certificate**	**No certificate**																				**1**		
		At room temperature																				***2***		
																						TOTAL		
																						QTY		
																						TOTAL VALUE		

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HMT310 Humidity and Temperature Transmitter series
All models

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

Item	Selection	Range	Note	Code	Ch2 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			**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**	
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℃)	**(-40…140℉)**	*for HMP301 probe*	**D**	**D**
	Tdf (-40…60℃)	**(-40…140℉)**	*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℃)	**(+32...+140℉)**	*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℃)	**(-40...212℉)**	*HMP303/304/305/306/307/308*	**N**	**N**
	Tdf (-40...100℃)	**(-40...212℉)**	*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℃)	**(+32...+212℉)**	*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℃**	**(-76…140℉)**		**B**	
	-40...+60℃	**(-40...+140℉)**		**C**	
	-40...+120℃	**(-40...+248℉)**		**D**	
	-40...+180℃	**(-40...+356℉)**		**E**	
	-20...+60℃	**(-4...+140℉)**		**F**	
	-20...+80℃	**(-4...+176℉)**		**G**	
	-20...+120℃	**(-4...+248℉)**		**H**	
	0...+60℃	**(+32...+140℉)**		**J**	
NOTE:	**0...+100℃**	**(+32...+ 212℉)**		**K**	
- Choose A when T	**0...+120℃**	**(+32...+248℉)**		**M**	
is not desired	**special range : _________ ℃/℉**			**X**	
9 Output units	**Metric**			**1**	
	Non-metric			**2**	
10 Cable connector	*8-pole connector with 5m cable*			*4*	
	8-pole counter connector			*5*	
11 Operating manual	**No manual**			**A**	
language	**English**			**B**	
	German			**C**	
	Japanese			**D**	
12 Probe type	**HMP301**			**A**	
	HMP303	**with 2 m cable, +80℃**		**B**	
		with 5 m cable, +80℃		*C*	
		with 10 m cable, +80℃		*D*	
		with 2 m cable, +120℃		**5**	
		with 5 m cable, +120℃		*6*	
		with 10 m cable, +120℃		*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*	
	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		

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