



Order form  
Orderer \_\_\_\_\_

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

**MMT332 Moisture and Temperature Transmitter for Oil**  
For High Pressure Applications

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Vaisala HUMICAP® Moisture and Temperature Transmitter	MMT330																						1	PRICE
1 Transmitter type	MMT332	2	0																					
2 Probe cable length	2 m cable 5 m cable 10 m cable	B C D																						
3 -----	None	0																						
4 Measurement parameters	aw+T aw+T+ppm aw+T+ppm for mineral transformer oil only specific transformer oil	E F X																						
5 Display	No display Graphical display with keypad	0 1																						
6 Power supply	10...35 VDC, 24 VAC 10...35 VDC, 24 VAC with galvanic Isolation Universal AC -power (100...240 VAC) Universal AC -power (100...240 VAC) + US -power cord Universal AC -power (100...240 VAC) + EUR -power cord Universal AC -power (100...240 VAC) + UK -power cord Universal AC -power (100...240 VAC) + AUS -power cord	0 1 2 3 4 5 6																						
7 Analog output	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V	1 2 3 4 5																						
Analog output parameter and scaling for Ch1&Ch2(&Ch3)	None T aw (0...1) ppm (0...100) ppm (0...500) (range: see below) (0...1) (0...100) (0...500)	C P Q R X																						
SPECIAL	Define parameter (unit) for Ch1: _____ Ch2: _____ Optional Ch3: _____ Define scale for Ch1: _____ Ch2: _____ Optional Ch3: _____	X X X																						
8																								
9																								
10																								
11 Analog output range for temperature	None -40...+60°C -40...+80°C -40...+120°C -40...+180°C -20...+60°C -20...+80°C -20...+120°C -20...+180°C 0...+60°C 0...+100°C 0...+120°C 0...+180°C -60...60 °C (-40...+140F) (-40...+176F) (-40...+248F) (-40...+356F) (-4...+140F) (-4...+176F) (-4...+248F) (-4...+356F) (+32...+140F) (+32...+212F) (+32...248F) (+32...356F) (-76...+140F)	A B C D E F G H J K L M N P X																						
NOTE:	- Choose option A, if no T output is desired																							
SPECIAL	°C / F																							
12 Output units	Metric Non-metric	1 2																						
13 Additional feature	None Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) WLAN (Wireless Ethernet) interface + antenna Data logging module*)	0 1 2 4 5 6																						
14 Additional feature 2	None Relay output 3rd Analog output Data logging module*) Choose also analog output signal for Ch3	0 1 3 6																						
15 Interface cable connection	Cable gland M20*1.5 Conduit fitting NPT1/2" Connector (M12, 8 pin) and plug with 5m cable Connector (M12, 8 pin) and plug (screw terminal)	A B C D																						
16 Transmitter housing installation	Wall Mounting Wall mounting plate (compatible with US junction boxes) Pipe / pole installation Pipe / pole installation with rain shield DIN-rail installation	0 1 2 3 4																						
17 Sensor	Special sensor for fluids																							
18 Sensor protection	Stainless steel grid (standard) Stainless steel grid (for applications with high flow speed, >1 m/s)																							
19 Probe installation access.	None																							
20 User's guide	None English German French Swedish Japanese	A B C D F J																						
21 PC accessories	None Service cable for PC, RS232 (D9 female connector) MITOLINK software for Windows® with RS232 service cable Service cable for PC, USB MITOLINK software for Windows® with USB service cable	A B C D E																						
22 Calibration	ISO9001 compliant factory calibration ISO9001 extended temperature range calibration (0 °C, +60 °C)	A B																						
23 -----	None																							

\*) Choose data logging module only once (option 13 or 14)

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.

Example of order code with typical settings:

MMT330 2 B 0 E 1 2 1 P C A L 1 1 1 A 0 2 D A B A A 1

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



Order form  
Orderer \_\_\_\_\_

Valid from January 2014  
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**MMT337 Moisture and Temperature Transmitter for Oil**  
With Small Pressure-tight Probe

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Moisture and Temperature Transmitter		MMT330																						
1	Transmitter type	MMT337	7	0																				
2	Probe cable length	2 m cable 5 m cable 10 m cable 20 m cable	S T U 8																					
3	-----	None	0																					
4	Measurement parameters	aw+T aw+T+ppm aw+T+ppm	E F X																					
5	Display	None Graphical display with keypad	0 1																					
6	Power supply	10...35 VDC, 24 VAC 10...35 VDC, 24 VAC with galvanic Isolation Universal AC -power (100...240 VAC) Universal AC -power (100...240 VAC) + US -power cord Universal AC -power (100...240 VAC) + EUR -power cord Universal AC -power (100...240 VAC) + UK -power cord Universal AC -power (100...240 VAC) + AUS -power cord	0 1 2 3 4 5 6																					
7	Analog output	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V	1 2 3 4 5																					
Analog output parameter and scaling for Ch1&Ch2(&Ch3)		No 3rd analog output T (range: see below) aw (0...1) (0...1) ppm (0...100) (0...100) ppm (0...500) (0...500)	C P Q R X	C C P Q R X																				
SPECIAL		Define parameter (unit) for Ch1: ( ) Ch2: ( ) Optional Ch3: ( ) Define scale for Ch1: Ch2: Optional Ch3:	X X X																					
8	Channel 1																							
9	Channel 2																							
10	Channel 3 (optional), choose A, if not needed																							
11	Analog output range for temperature	None -40...+60 °C (-40...+140 F) -40...+80 °C (-40...+176 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) -20...+180 °C (-4...+356 F) 0...+60 °C (+32...+140 F) 0...+100 °C (+32...+212 F) 0...+120 °C (+32...+248 F) 0...+180 °C (+32...+356 F) -60...+60 °C (-76...+140 F)	A B C D E F G H J K L M N P X																					
NOTE:		- Choose option A, if no T output is desired																						
SPECIAL		°C / °F	F																					
12	Output units	Metric Non-metric	1 2																					
13	Additional feature	None Relay output RS-485 galvanic isolation LAN (Ethernet) interface + 2 m cable (RJ45) WLAN (Wireless Ethernet) interface + antenna Data logging module*)	0 1 2 4 5 6																					
14	Additional feature 2	None Relay output 3rd Analog output Data logging module*)	0 1 3 6																					
15	Interface cable connection	Cable gland (for 8...11mm cable) (for 0.315...0.433 inch cable) Conduit fitting for wire conduit (NPT1/2") Connector (M12, 8 pin) and plug with 5m cable Connector (M12, 8 pin) and plug (screw terminal)	A B C D																					
SPECIAL		spare cable: 212142 spare connector: 212416																						
16	Transmitter housing installation	Wall Mounting Wall mounting mate (compatible with US junction boxes) Pipe / pole installation Pipe / pole installation with rain shield DIN-rail installation	0 1 2 3 4																					
SPECIAL		item: 214829 item: 215108 item: 215109 item: 215094																						
17	Sensor	Special sensor for fluids																						
18	Sensor protection	Stainless steel grid (standard) Stainless steel grid (for applications with high flow speed, >1 m/s)	2 D E																					
SPECIAL		spare sensor: HUMICAP180L2 spare: HM47453SP spare: 220752SP																						
19	Probe installation accessories	None Swagelok connector NPT 1/2" Swagelok connector ISO 3/8" Swagelok connector ISO 1/2"	A K L Y																					
SPECIAL		spare: SWG12NPT12 spare: SWG12ISO38 spare: SWG12ISO12																						
20	User's guide	None English German French Swedish Japanese	A B C D F J																					
21	PC accessories	None Service cable for PC, RS232 MITOLINK software for Windows® with RS232 service cable Service cable for PC, USB MITOLINK software for Windows® with USB service cable	A B C D E																					
SPECIAL		item: 19446ZZ item: 215005 item: 219885 item: 219916																						
22	Calibration	ISO9001 compliant factory calibration ISO9001 extended temperature range calibration (0 °C, +60 °C)	A B																					
SPECIAL		standard service calibration: 223304																						
23	-----	None	1																					
*) Choose data logging module only once (option 13 or 14)																								
TOTAL																						1		
QTY																								
TOTAL VALUE																								

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Example of order code with typical settings:

**MMT330 | 7 | S | 0 | E | 1 | 2 | 1 | P | C | A | L | 1 | 1 | 1 | A | 0 | 2 | D | A | B | A | A | 1**

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



Order form  
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**MMT338 Moisture and Temperature Transmitter for Oil**  
For Pressurized Pipelines

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Vaisala HUMICAP® Humidity and Temperature Transmitter		MMT330																						
1	Transmitter type	MMT338																						
2	Probe cable length	2 m cable for standard probe	V																					
		5 m cable for standard probe	W																					
		10 m cable for standard probe	X																					
		2 m cable for long probe	1																					
		5 m cable for long probe	2																					
		10 m cable for long probe	3																					
		15 m cable for long probe	5																					
		20 m cable for long probe	9																					
3	----	None	0																					
4	Measurement parameters	aw+T	E																					
		aw+T+ppm for mineral transformer oil only	F																					
		aw+T+ppm specific transformer oil oil type: _____	X																					
5	Display	No display	0																					
		Graphical display with keypad	1																					
6	Power supply	10...35 VDC 24 VAC	0																					
		10...35 VDC, 24 VAC with galvanic isolation	1																					
		Universal AC -power (100...240 VAC)	2																					
		Universal AC -power (100...240 VAC) + US -power cord	3																					
		Universal AC -power (100...240 VAC) + EUR -power cord	4																					
		Universal AC -power (100...240 VAC) + UK -power cord	5																					
		Universal AC -power (100...240 VAC) + AUS -power cord	6																					
7	Analog output	4... 20 mA	1																					
		0... 20 mA	2																					
		0... 1 V	3																					
		0... 5 V	4																					
		0... 10 V	5																					
	Analog output parameter and scaling for Ch1&Ch2(&Ch3)	No 3rd analog output	A																					
		T (range: see below)	C																					
		aw (0...1) (0...1)	P																					
		ppm (0...100) (0...100)	Q																					
		ppm (0...500) (0...500)	R																					
		SPECIAL Define parameter (unit) for Ch1: _____ Ch2: _____ Optional Ch3: _____	X																					
		Define scale for Ch1: _____ Ch2: _____ Optional Ch3: _____	X																					
8			Channel 1																					
9			Channel 2																					
10			Channel 3, choose A if not needed																					
11	Analog output range for temperature	None	A																					
		-40...+60°C (-40...+140°F)	B																					
		-40...+80°C (-40...+176°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																					
		-20...+180°C (-4...+356°F)	J																					
		0...+60°C (+32...+140°F)	K																					
		0...+100°C (+32...+212°F)	L																					
		0...+120°C (+32...248°F)	M																					
		0...+180°C (+32...356°F)	N																					
		-60...60 °C (-76...+140°F)	P																					
		SPECIAL °C / °F	X																					
12	Output units	Metric	1																					
		Non-metric	2																					
13	Additional feature	None	0																					
		Relay output	1																					
		RS-485 galvanic isolation	2																					
		LAN (Ethernet) interface + 2 m cable (RJ45)	4																					
		WLAN (Wireless Ethernet) interface + antenna	5																					
		Data logging module*)	6																					
14	Additional feature 2	None	0																					
		Relay output	1																					
		3rd Analog output Choose also analog output signal for Ch3	3																					
		Data logging module*)	6																					
15	Interface cable connection	Cable gland (for 8...11mm cable)	A																					
		Conduit fitting for wire conduit (NPT1/2")	B																					
		Connector (M12, 8 pin) and plug with 5m cable	C																					
		Connector (M12, 8 pin) and plug (screw terminal) spare cable: 212142 spare connector: 212416	D																					
16	Transmitter housing installation	Wall Mounting	0																					
		Wall mounting mate (compatible with US junction boxes) item: 214829	1																					
		Pipe / pole installation item: 215108	2																					
		Pipe / pole installation with rain shield item: 215109	3																					
		DIN-rail installation item: 215094	4																					
17	Sensor	Special sensor for fluids	2																					
		Stainless steel grid (standard) spare: HM47453SP	D																					
		Stainless steel grid (for applications with high flow speed, >1 m/s) spare: 220752SP	E																					
18	Sensor protection	Stainless steel grid (standard)	D																					
		Stainless steel grid (for applications with high flow speed, >1 m/s)	E																					
19	Probe installation accessories	Ball Valve ISO1/2 with welding joint	M																					
		Ball Valve ISO1/2 with thread joint ISO 3/4	Z																					
		Pressure fitting NPT1/2	N																					
		Pressure fitting ISO 1/2	V																					
		Ball Valve ISO1/2 with ISO1/2 and NPT1/2 fitting bodies	3																					
20	User's guide	None	A																					
		English	B																					
		German	C																					
		French	D																					
		Swedish	F																					
		Japanese	J																					
21	PC accessories	None	A																					
		Service cable for PC, RS232 item: 19446ZZ	B																					
		M70LINK software for Windows® with RS232 service cable item: 215005	C																					
		Service cable for PC, USB item: 219685	D																					
		M70LINK software for Windows® with USB service cable item: 219916	E																					
22	Calibration	ISO9001 compliant factory calibration	A																					
		ISO9001 extended temperature range calibration (0 °C, +60 °C) standard service calibration: 223304	B																					
23	----	None	1																					

\*) Choose data logging module only once (option 13 or 14)

TOTAL  
QTY  
TOTAL VALUE

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

Example of order code with typical settings:

**MMT330** 8 V 0 E 1 2 1 P C A L 1 1 1 A 0 2 D M B A A 1

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