

MMT330 Moisture and Temperature Transmitter Series for Oil

Vaisala HUMCAP® Moisture and Temperature Transmitter		MMT330	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Transmitter type	MMT332 MMT337 MMT338	for pressurized processes with flange for tight installations for pressurized pipelines	2 7 8																					
2	Probe cable length	2 m cable 5 m cable 10 m cable 2 m cable 5 m cable 10 m cable 20 m cable 2 m cable for 232 mm probe 5 m cable for 232 mm probe 10 m cable for 232 mm probe 2 m cable for 454 mm probe 5 m cable for 454 mm probe 10 m cable for 454 mm probe 15 m cable for 454 mm probe 20 m cable for 454 mm probe	MMT332 MMT337 MMT338	B C D S T U 8 V W X 1 2 3 5 9																					
3	-----	None		0																					
4	Measurement parameters	aw+T aw+T+ppm %RS + ppm + T aw+T+ppm	ppm for mineral transformer oil only ppm for mineral transformer oil only specific transformer oil	E F G 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	None T aw (0...1) ppm (0...100) ppm (0...500) %RS (0...100)	(range: see below) (0...1) (0...100) (0...500) (0...100)	C P Q R 4 4 4 X X 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 NOTE: - Choose option A, if no T output is desired	(-40...+140 °F) (-40...+176 °F) (-40...+248 °F) (-40...+356 °F) (-40...+440 °F) (-40...+176 °F) (-40...+248 °F) (-40...+356 °F) (-40...+440 °F) (+32...+212 °F) (+32...+248 °F) (+32...+356 °F) (+76...+140 °F) special	A B C D E F G H J K L M N P X																					
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) Data logging module*)		0 1 2 4 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)	Standard connection: analog outputs CH1 and CH2, Serial line and operating voltage 10...35 V, 24VAC Standard connection: analog outputs CH1 and CH2, Serial line and operating voltage 10...35 V, 24VAC	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	Humidity sensor	Special sensor for fluids		2																					
18	Sensor protection	Stainless steel grid (standard) Stainless steel grid (for applications with high flow speed, >1 m/s)		D E																					
19	Probe installation accessories	None Swagelok connector NPT 1/2" Swagelok connector ISO 3/8" Swagelok connector ISO 1/2" Ball Valve ISO1/2 with welding joint Pressure fitting NPT1/2 Pressure fitting ISO 1/2 Ball Valve ISO1/2 with thread joint ISO3/4 Ball Valve ISO1/2 with ISO1/2 and NPT1/2 fitting bodies	for MMT337 for MMT337 for MMT337 for MMT338 for MMT338 for MMT338 for MMT338	A K L Y M N V Z 3																					
20	User's guide	None English German French Finnish Swedish Chinese Japanese		A B C D E F V 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																					
22	Calibration	ISO9001 compliant factory calibration		A																					
23	Additional maintenance	No maintenance and repair contract		1																					

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

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

End customer: _____

TOTAL
QTY
TOTAL VALUE

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		MMT332	2	0																				1
1 Transmitter type	MMT332	2																						1
2 Probe cable length	2 m cable 5 m cable 10 m cable		B																					
3 -----	None			0																				
4 Measurement parameters	aw+T aw+T+ppm %RS + ppm + T aw+T+ppm									E	F	G	X											
5 Display	No display Graphical display with keypad					0																		
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 (range: see below) aw (0...1) ppm (0...100) ppm (0...500) %RS (0...100)									C	P	Q	R	4	4	4	A	B	C	D	E	F	G	H
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																							
NOTE:	- Choose option A, if no T output is desired																							
SPECIAL	°C / F																							
12 Output units	Metric Non-metric																							
13 Additional feature	None Relay output RS-485 serial interface (galvanically isolated) LAN (Ethernet) interface + 2 m cable (RJ45) Data logging module*)																							
14 Additional feature 2	None Relay output 3rd Analog output Data logging module*)																							
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)																							
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																							
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 Finnish Swedish Chinese Japanese																							
21 PC accessories	None Service cable for PC, RS232 (D9 female connector) MI70LINK software for Windows® with RS232 service cable Service cable for PC, USB MI70LINK software for Windows® with USB service cable																							
22 Calibration	ISO9001 compliant factory calibration																							
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: _____

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		MMT337	7	0																				PRICE	
1	Transmitter type	MMT337	7	0																					
2	Probe cable length	2 m cable 5 m cable 10 m cable 20 m cable																							
3	-----	None		0																					
4	Measurement parameters	aw+T aw+T+ppm %RS + ppm + T aw+T+ppm																							
5	Display	None Graphical display with keypad																							
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																							
7	Analog output	4... 20 mA 0... 20 mA 0... 1 V 0... 5 V 0... 10 V																							
	Analog output parameter and scaling for Ch1&Ch2(&Ch3)	No 3rd analog output T (range: see below) aw (0...1) ppm (0...100) ppm (0...500) %RS (0...100)																							
	SPECIAL	Define parameter (unit) for Ch1: () Ch2: () Optional Ch3: () Define scale for Ch1: Ch2: Optional Ch3:																							
8																									
9																									
10																									
11	Analog output range for temperature	None -40...+60 °C (-40...+140 °F) -40...+80 °C (-40...+176 °F) NOTE: - Choose option A, if no T output is desired -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 (-78...-140 °F)																							
	SPECIAL	°C / °F																							
12	Output units	Metric Non-metric																							
13	Additional feature	None Relay output RS-485 galvanic isolation LAN (Ethernet) interface + 2 m cable (RJ45) Data logging module*)																							
14	Additional feature 2	None Relay output 3rd Analog output Data logging module*)																							
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)																							
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																							
17	Sensor	Special sensor for fluids Stainless steel grid (standard) Stainless steel grid (for applications with high flow speed, >1 m/s)																							
18	Sensor protection	None Swagelok connector NPT 1/2" Swagelok connector ISO 3/8" Swagelok connector ISO 1/2"																							
19	Probe installation accessories	None Swagelok connector NPT 1/2" Swagelok connector ISO 3/8" Swagelok connector ISO 1/2"																							
20	User's guide	None English German French Finnish Swedish Chinese Japanese																							
21	PC accessories	None Service cable for PC, RS232 MI70L INK software for Windows® with RS232 service cable Service cable for PC, USB MI70L INK software for Windows® with USB service cable																							
22	Calibration	ISO9001 compliant factory calibration																							
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 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: _____

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		MMT338	8	0																				
1 Transmitter type	MMT338	8																						
2 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 15 m cable for long probe 20 m cable for long probe	V W X 1 2 3 5 9																						
3 ----	None	0																						
4 Measurement parameters	aw+T aw+T+ppm %RS + ppm + T aw+T+ppm ppm for mineral transformer oil only ppm for mineral transformer oil only specific transformer oil oil type:	E F G 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)	No 3rd analog output T (range: see below) aw (0...1) ppm (0...100) ppm (0...500) %RS (0...100) SPECIAL Define parameter (unit) for Ch1: () Ch2: () Optional Ch3: () Define scale for Ch1: () Ch2: () Optional Ch3: ()	A C P Q R 4 4 4 X X X																						
8																								
9																								
10																								
11 Analog output range for temperature	None -40...+60 °C (-40...+140 °F) NOTE: -40...+80 °C (-40...+176 °F) - Choose option A, if no T output is desired -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) SPECIAL °C / F	A B C D E F G H J K L M N P X																						
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) Data logging module*)	0 1 2 4 6																						
14 Additional feature 2	None Relay output 3rd Analog output Choose also analog output signal for Ch3 Data logging module*)	0 1 3 6																						
15 Interface cable connection	Cable gland (for 8...11mm 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																						
16 Transmitter housing installation	Wall Mounting Wall mounting mate (compatible with US junction boxes) item: 214829 Pipe / pole installation item: 215108 Pipe / pole installation with rain shield item: 215109 DIN-rail installation item: 215094	0 1 2 3 4																						
17 Sensor	Special sensor for fluids spare sensor: HUMICAP180L2	2																						
18 Sensor protection	Stainless steel grid (standard) spare: HM47453SP Stainless steel grid (for applications with high flow speed, >1 m/s) spare: 220752SP	D E																						
19 Probe installation accessories	Ball Valve ISO1/2 with welding joint Ball Valve ISO1/2 with thread joint ISO 3/4 Pressure fitting NPT1/2 Pressure fitting ISO 1/2 Ball Valve ISO1/2 with ISO1/2 and NPT1/2 fitting bodies	M Z N V 3																						
20 User's guide	None English German French Finnish Swedish Chinese Japanese	A B C D E F V J																						
21 PC accessories	None Service cable for PC, RS232 item: 19446ZZ M70LINK software for Windows® with RS232 service cable item: 215005 Service cable for PC, USB item: 219685 M70LINK software for Windows® with USB service cable item: 219916	A B C D E																						
22 Calibration	ISO9001 compliant factory calibration standard service calibration: 223304	A																						
23 ----	None	1																						

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

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:

MMT338 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: _____

TOTAL
QTY
TOTAL VALUE