



Public Order Form for Global Use
Valid from: December 2022

Purchaser _____ Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP371 Probe

1. Probe Model
2. Ex Certificate
3. Probe Type
4. Filter
5. Probe Acc.
6. Transmitter Type
7. Output Units
8. CH1 Output
9. CH2 Output
10. Cable Lead-through
11. Transmitter Acc.
12. Not in use

HMT370EX Transmitter + HMP371 Probe for Wall Mounting				HMT370EX	1	A	N												Price
1	Probe Model	HMP371	Probe for Wall Mounting		1														
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da	1 2 4 5 6 7 8 9														
3	Probe Cable Length and Sensor	Probe Model HMP371	Cable No Cable	Specification Fixed Probe, max +60°C	Sensor HUMICAP® R2														
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Metalized PPS Plastic Filter Grid for fast response in clean environments		Pore size 15 µm 38 µm 6.5 mm gaps	Spare part code DRW010281SP HM47280SP DRW010276SP	1 2 4													
5	Probe Accessories	No Accessories																	
6	Transmitter Type	No Display <i>Display</i>	Transmitter without Display and Keypad <i>Transmitter with Display and Keypad</i>																
7	Output Units	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units																
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal														
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Dewpoint Temperature	RH (%) T (°C °F) T (°C °F) T (°C °F) Td (°C °F)	0...100 % 0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)														
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:														
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg gr/lb)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure pws (hPa psi) Dewpoint temperature difference DT (°C °F) Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) Water vapor saturation pressure pws (hPa psi) Dewpoint temperature difference DT (°C °F) aNTP (g/m3 gr/ft3) H2Ow (ppmw)														
10	Cable Lead-through	NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*												
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)		Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*		Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D												
12	Reserved	None																	

Additional information

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:

HMT370EX 1 1 A 1 N B 1 A C 1 N N



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Purchaser _____
Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP373 Probe

HMT370EX Transmitter + HMP373 Probe for Confined Spaces				HMT370EX				1. Probe Model	2. Ex-Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price
1	Probe Model	HMP373	Probe for Confined Spaces					3													
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da					1	2	4	5	6	7	8	9	B				
3	Probe Cable Length and Sensor	Probe Model Humidity & Temperature HMP373	Cable 2m 5 m 10 m HMP373 2m 5 m 10 m	Specification max +80°C max +80°C max +80°C max +120°C max +120°C max +120°C	Sensor HUMICAP® R2 HUMICAP® R2 HUMICAP® R2 HUMICAP® R2 HUMICAP® R2					B	C	D	E	F	G						
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Metalized PPS Plastic Filter Grid for fast response in clean environments	Pore size 15 µm 38 µm 6.5 mm gaps	Spare part code DRW010281SP HM472805P DRW010276SP					1	2	4										
5	Probe Accessories	Type No Accessories Duct Installation Kit Cable Gland for Probe Mounting	Specification M20 x 1.5 with Split Seal	Probe compatibility HMP373/377 HMP373/HMP375/HMP377	Spare part code 210697 HMP247CG					N	B	E									
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad					A	B												
7	Output Units	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units					1	2	J			Channel 1	Channel 2							
8-9	Analog Outputs	Parameter No Analog Output	Scale, Metric (Non-Metric)	Output signal					N	N											
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Temperature Dewpoint Temperature	RH (%) T (°C °F) T (°C °F) T (°C °F) T (°C °F) T (°C °F)	0...100 % 0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)					A	B	C	D	E	H						
	Custom scaling	CH1 Parameter & Scale	CH2 Parameter & Scale					X	X												
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg qr/ft)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 qr/ft3) H2Ow (ppmw)																
10	Cable Lead-through	NOTE: Please choose the item that meets Ex-requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXIN/M20-M16/R* ABB, EXIN/M20-050/TC*					0	1	2	3	4	5	6	7	8	
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl 9001/51-280-091-141 Stahl 9160/13-11-11k GMI, D5014S GMI, D5014D					N	A	B	C	D	E	H	J				
12	Reserved	None																			

Additional information
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:
HMT370EX|3|1|E|1|N|B|1|A|C|1|N|N



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Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP374 Probe

HMT370EX Transmitter + HMP374 Probe for Pressurized Processes				HMT370EX				1. Probe Model	2. Ex. Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price
1	Probe Model	HMP374	Probe for Pressurized Processes					4													
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da					1 2 4 5 6 7 8 9 B												
3	Probe Cable Length and Sensor	Probe Model HMP374	Cable 2m 5 m 10 m	Specification max +180°C max +180°C max +180°C	Sensor HUMICAP® R2 HUMICAP® R2 HUMICAP® R2					H J K											
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Stainless Steel Filter for vacuum environments (AISI 303) Metalized PPS Plastic Filter Grid for fast response in clean environments	Pore size 15 µm 38 µm 3.15 mm holes 6.5 mm gaps	Spare part code DRW010281SP HM472805P HM474535P DRW0102765P					1 2 3 4												
5	Probe Accessories	Type Fitting Body for Probe Mounting Fitting Body for Probe Mounting	Specification M22 x 1.5 NPT 1/2	Probe compatibility HMP374 HMP374	Spare part code 17223SP 17225SP					F G											
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad							A B											
7	Output Units	This selection applies also to analog outputs	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units					1 2 J				Channel 1 Channel 2								
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal					N A B C D E H											
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Dewpoint Temperature	RH (%) T (°C °F) T (°C °F) T (°C °F) T (°C °F) Td (°C °F)	0...100 % 0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)					A B C D E H											
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:					X X											
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg gr/lb)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 gr/ft3) H2Ow (ppmw)																
10	Cable Lead-through	NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 10...14 mm 5...11 mm 10...14 mm 10...14 mm 2 pcs	Quantity 1 pc 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*					0 1 2 3 4 5 6 7 8									
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D					N A B C D E H J											
12	Reserved	None									N										

Additional information
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:
HMT370EX | 4 | 1 | H | 2 | F | B | 1 | A | C | 1 | N | N



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Purchaser _____
Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP375 Probe

HMT370EX Transmitter + HMP375 Probe for High Temperatures				HMT370EX				1. Probe Model	2. Ex Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price	
1	Probe Model	HMP375	Probe for High Temperatures																			
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da																		
3	Probe Cable Length and Sensor	Probe Model HMP375	Cable 2m 5 m 10 m	Specification max +180°C max +180°C max +180°C	Sensor HUMICAP® R2 HUMICAP® R2 HUMICAP® R2																	
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Metalized PPS Plastic Filter Grid for fast response in clean environments	Pore size 15 µm 38 µm 6.5 mm gaps	Spare part code DRW010281SP HM472805P DRW010276SP																		
5	Probe Accessories	Type No Accessories Mounting Flange Cable Gland for Probe Mounting	Specification M20 x 1.5 with Split Seal	Probe compatibility HMP375 HMP373/HMP375/HMP377	Spare part code 210696 HMP247CG																	
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad																			
7	Output Units	This selection applies also to analog outputs	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units																		
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal																	
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Dewpoint Temperature	RH (%) T (°C °F) T (°C °F) T (°C °F) T (°C °F) Td (°C °F)	0...100 % 0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)																	
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:																	
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg gr/lb)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 gr/ft3) H2Ow (ppmw)																	
10	Cable Lead-through	NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 10...14 mm 5...11 mm 10...14 mm 10...14 mm 2 pcs	Quantity 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*															
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator *) Order as separate lines to Japan Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D																	
12	Reserved	None																				

Additional information
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:
HMT370EX | 5 | 1 | L | 2 | N | B | 1 | A | C | 1 | N | N



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Purchaser _____ Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP377 Probe

HMT370EX Transmitter + HMP377 Probe for High Humidities				HMT370EX	7	1. Probe Model	2. Ex. Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price
1	Probe Model	HMP377	Probe for High Humidities																
2	Ex Certification	Certificate	Region	Product markings															
	Please see details in the Ex-certificate	IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da															
3	Probe Cable Length and Sensor	Probe Model	Cable	Specification	Sensor														
	Humidity & Temperature	HMP377	2m 5 m 10 m	max +180°C max +180°C max +180°C	HUMICAP® R2 HUMICAP® R2 HUMICAP® R2														
4	Sensor Protection	Type		Pore size	Spare part code														
		Metallized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Metallized PPS Plastic Filter Grid for fast response in clean environments Stainless Steel Filter (AISI 303) with PTFE Membrane		15 µm 38 µm 6.5 mm gaps 0.2 µm	DRW010281SP HM472805P DRW010276SP 214848SP														
5	Probe Accessories	Type	Specification	Probe compatibility	Spare part code														
		No Accessories Duct Installation Kit Cable Gland for Probe Mounting Swagelok Probe Fitting Swagelok Probe Fitting Swagelok Probe Fitting	M20 x 1.5 with Split Seal NPT Thread (12mm) ISO 3/8 Thread (12mm) ISO 1/2" Thread (12mm)	HMP373/377 HMP373/HMP375/HMP377 HMP377 HMP377 HMP377	210697 HMP247CG SWG12NPT12 SWG12ISO38 SWG12ISO12														
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad																
7	Output Units	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units																
	This selection applies also to analog outputs																		
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal														
		Humidity, temperature, dew point	RH (%) T (°C °F) Temperature T (°C °F) Temperature T (°C °F) Temperature T (°C °F) Dewpoint Temperature Td (°C °F)	0...100 % 0...+60 °C (+32...+140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)														
	Custom scaling	CH1 Parameter & Scale		CH2 Parameter & Scale															
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg gr/lb)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 gr/ft3) H2Ow (ppmw)														
10	Cable Lead-through	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP *See current approvals from the manufacturer's data sheet	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXIN/M20-M16/R* ABB, EXIN/M20-050/TC*													
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 GMI, 9160/13-11-11k GMI, D5014S GMI, D5014D														
12	Reserved	None																	

Additional information
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:
HMT370EX 7 | 1 | P | 1 | N | B | 1 | A | C | 1 | N | N



Public Order Form for Global Use
Valid from: December 2022

Purchaser _____
Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP378 Probe

HMT370EX Transmitter + HMP378 Probe for Pressurized Pipelines					HMT370EX													
					1. Probe Model	2. Ex Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price
1	Probe Model	HMP378	Probe for Pressurized Pipelines		8													
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da	1 2 4 5 6 7 8 9 B													
3	Probe Cable Length and Humidity & Temperature	Probe Model HMP378	Cable 2m 5m 10m HMP378 2m 5m 10m	Specification 262mm probe, max +180°C 262mm probe, max +180°C 262mm probe, max +180°C 448mm probe, max +180°C 448mm probe, max +180°C 448mm probe, max +180°C	Sensor HUMICAP® R2 HUMICAP® R2 HUMICAP® R2 HUMICAP® R2 HUMICAP® R2 HUMICAP® R2	T U V W Y Z												
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Stainless Steel Filter for vacuum environments (AISI 303) Metalized PPS Plastic Filter Grid for fast response in clean environments	Pore size 15 µm 38 µm 3.15 mm holes 6.5 mm gaps	Spare part code DRW010281SP HM472805P HM474535P DRW010276SP	1 2 3 4													
5	Probe Accessories	Type No Accessories Ball Valve Fitting Body for Probe Mounting Fitting Body for Probe Mounting	Specification ISO 1/2 with Welding Joint ISO1/2 Solid Structure NPT 1/2 Solid Structure	Probe compatibility HMP378 HMP378 HMP378	Spare part code BALLVALVE-1 DRW212076SP 212810SP	N D L M												
6		No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad			A B												
7	Output Units	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units			1 2 J				Channel 1 Channel 2								
8-9	Analog Outputs	Parameter No Analog Output	Scale, Metric (Non-Metric)	Output signal														
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Temperature Dewpoint Temperature	RH (%) 0...+60 °C (+32...+140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)	N A B C D E H													
	Custom scaling	CH1 Parameter & Scale	CH2 Parameter & Scale			X	X											
	Available parameters	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/lb3) x (g/kg qr/lb)	Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 qr/lb3) H2Ow (ppmw)													
10	Cable Lead-through	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*	0 1 2 3 4 5 6 7 8											
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D	N A B C D E H J												
12	Reserved	None																

Additional information
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:
HMT370EX 8 1 W 3 D B 1 A C 1 N N



Public Order Form for Global Use
Valid from: December 2022

Purchaser _____ Order no. _____

Intrinsically Safe Transmitter HMT370EX with Temperature Measurement Probe

HMT370EX Transmitter + HMP371/HMP373 Probe with Temperature only Measurement				HMT370EX				1. Probe Model	2. Ex. Certificate	3. Probe Type	4. Filter	5. Probe Acc.	6. Transmitter Type	7. Output Units	8. CH1 Output	9. CH2 Output	10. Cable Lead-through	11. Transmitter Acc.	12. Not in use	N	Price
1	Probe Model	HMP371 HMP373	Probe for Wall Mounting Probe for Confined Spaces																		
2	Ex Certification	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da																	
3	Probe Cable Length and Sensor	Probe Model HMP371 HMP373	Cable No Cable 2m 5 m 10 m	Specification Fixed Probe, max +60 °C max +120 °C max +120 °C max +120 °C	Sensor Temperature sensor only Temperature sensor only Temperature sensor only Temperature sensor only																
4	Sensor Protection	Type Metalized PPS Plastic Filter Grid with Stainless Steel Mesh for general use Stainless Steel Sintered Filter (AISI 316L) for general use Metalized PPS Plastic Filter Grid for fast response in clean environments	Pore size 15 µm 38 µm 6.5 mm gaps	Spare part code DRW010281SP HM47280SP DRW010276SP																	
5	Probe Accessories	Type No Accessories Duct Installation Kit Cable Gland for Probe Mounting	Specification M20 x 1.5 with Split Seal	Probe compatibility HMP373/377 HMP373/HMP375/HMP377	Spare part code 210697 HMP247CG																
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad																		
7	Output Units	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units																		
8-9	Analog Outputs	Parameter No Analog Output	Scale, Metric (Non-Metric)	Output signal																	
	Temperature	Temperature	T (°C °F)	0...+60 °C (+32...+ 140 °F)	4... 20 mA (3.6 mA when in error state)																
	Temperature	Temperature	T (°C °F)	-40...+60 °C (-40...+140 °F)	4... 20 mA (3.6 mA when in error state)																
	Temperature	Temperature	T (°C °F)	-20...+80 °C (-4...+176 °F)	4... 20 mA (3.6 mA when in error state)																
	Temperature	Temperature	T (°C °F)	-40...+180 °C (-40...356 °F)	4... 20 mA (3.6 mA when in error state)																
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:																
	Available parameters	Temperature	T (°C °F)																		
10	Cable Lead-through	NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXIN/M20-M16/R* ABB, EXIN/M20-050/TC*														
11	Transmitter Accessories	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D																
12	Reserved	None																			

Additional information
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:
HMT370EX | **3** | **1** | **5** | **4** | **N** | **B** | **1** | **D** | **N** | **1** | **N** | **N**



Public Order Form for Global Use
Valid from: December 2022

Purchaser _____
Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP378F Probe

- 1. Probe Model
- 2. Ex. Certificate
- 3. Probe Type
- 4. Filter
- 5. Probe Acc.
- 6. Transmitter Type
- 7. Output Units
- 8. CH1 Output
- 9. CH2 Output
- 10. Cable Lead-through
- 11. Transmitter Acc.
- 12. Not in use

HMT370EX Transmitter + HMP378F Probe for Moisture in Oil					HMT370EX					N	Price	
1	Probe Model Moisture in oil	HMP378F	Probe for Moisture in Oil		F							
2	Ex Certification Please see details in the Ex-certificate	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da	F 1 2 4 5 6 7 8 9 B							
3	Probe Cable Length and Sensor Moisture in oil	Probe Model HMP378F	Cable 2m 5 m 10 m	Specification 262mm probe, max +180°C 262mm probe, max +180°C 262mm probe, max +180°C	Sensor HUMICAP® 180L2 HUMICAP® 180L2 HUMICAP® 180L2	1 2 3						
4	Sensor Protection	Type Stainless Steel Filter for oil and vacuum environments (AISI 303) Stainless Steel Filter for high oil flow applications / not FM approved	Pore size 3.15 mm holes 2 mm holes	Spare part code HM47453SP 220752SP		3 6						
5	Probe Accessories Note! All accessories can be ordered as a separate sales order line	Type Ball Valve Fitting Body for Probe Mounting Fitting Body for Probe Mounting	Specification ISO 1/2 with Welding Joint ISO1/2 Solid Structure NPT 1/2 Solid Structure	Probe compatibility HMP378 HMP378 HMP378	Spare part code BALLVALVE-1 DRW212076SP 212810SP		D L M					
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad		A B							
7	Output Units This selection applies also to analog outputs	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units					1 2 J	Channel 1 Channel 2			
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal					N N		
	Temperature	Temperature Temperature Temperature	T (°C °F) T (°C °F) T (°C °F)	0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)					B C D		
	Moisture in oil	Water Concentration in Oil* Relative Saturation Water Activity Saturation temperature	H2O_oil (ppmw) RS (%RS) a _w Ts (°C °F)	0...500 ppmw 0...100 % 0...1 -40...60 °C (-40...140 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)					M P R S		
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:					X X		
	Available parameters for model HMP378F	Temperature Relative saturation Water activity Water concentration in oil	T (°C °F) RS (%RS) a _w H2O_oil (ppmw)	*) PLEASE NOTE: The water concentration in oil (ppmw) applies only to mineral transformer insulation oils								
10	Cable Lead-through NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXIN/M20-M16/R* ABB, EXIN/M20-050/TC*					0 1 2 3 4 5 6 7 8	
11	Transmitter Accessories Note! All accessories can be ordered as a separate sales order line *) Order as separate lines to Japan	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11k GMI, D5014S GMI, D5014D					N A B C D E H J		
12	Reserved	None									N	

Additional Information
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:
HMT370EX | F | 1 | 1 | 3 | L | B | 1 | P | S | 1 | N | N



Public Order Form for Global Use
Valid from: December 2022

Purchaser _____

Order no. _____

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX with HMP378H Probe

HMT370EX Transmitter + HMP378H Probe for Moisture in JET A-1 Fuel		HMT370EX	H										N		Price		
1	Probe Model Moisture in fuel	HMP378H	Probe for Moisture in JET A-1 Fuel		H												
2	Ex Certification Please see details in the Ex-certificate	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEK	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate Ex ia IIC T4 Ga Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da		1 2 4 5 6 7 8 9											
3	Probe Cable Length and Sensor Moisture in JET A-1 fuel	Probe Model HMP378H	Cable 2m 5 m 10 m	Specification 262mm probe, max +180°C 262mm probe, max +180°C 262mm probe, max +180°C	Sensor HUMICAP® 180L2 HUMICAP® 180L2 HUMICAP® 180L2	1 2 3											
4	Sensor Protection	Type Stainless Steel Filter for oil and vacuum environments (AISI 303) Stainless Steel Filter for high oil flow applications / not FM approved		Pore size 3.15 mm holes 2 mm holes	Spare part code HM47453SP 220752SP	3 6											
5	Probe Accessories Note! All accessories can be ordered as a separate sales order line	Type Ball Valve Fitting Body for Probe Mounting Fitting Body for Probe Mounting	Specification ISO 1/2 with Welding Joint ISO 1/2 Solid Structure NPT 1/2 Solid Structure	Probe compatibility HMP378 HMP378 HMP378	Spare part code BALLVALVE-1 DRW212076SP 212810SP							D L M					
6	Transmitter Type	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad									A B					
7	Output Units This selection applies also to analog outputs	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units									1 2 J	Channel 1 Channel 2				
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal							N N					
	Temperature	Temperature Temperature Temperature	T (°C °F) T (°C °F) T (°C °F)	0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)							B C D					
	Moisture in JET A-1 Fuel	Water Concentration in Fuel Relative Saturation Water Activity Saturation temperature	H2O_fuel (ppmw) RS (%RS) a_w Ts (°C °F)	0...500 ppmw 0...100 % 0...1 -40...60 °C (-40...140 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)							L P R S					
	Custom scaling	CH1 Parameter & Scale	:	CH2 Parameter & Scale	:							X X					
	Available parameters for model HMP378H	Temperature Relative saturation Water activity Water concentration in fuel Saturation temperature	T (°C °F) RS (%RS) a_w H2O_fuel (ppmw) Ts (°C °F)														
10	Cable Lead-through NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*	0 1 2 3 4 5 6 7 8										
11	Transmitter Accessories Note! All accessories can be ordered as a separate sales order line *) Order as separate lines to Japan	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	<i>HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)</i>	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11K GMI, D5014S GMI, D5014D	N A B C D E H J											
12	Reserved	None															

Additional information

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:

HMT370EX | H | 1 | 1 | 3 | L | B | 1 | P | S | 1 | N | N

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX only (spare part)

HMT370EX Transmitter Unit without Probe				HMT370EX	0	0	0	N												Price	
1	Probe Model	HMT370	Transmitter Unit only																		
2	Ex Certification <small>Please see details in the Ex-certificate</small>	Certificate IECEX ATEX CML FM MET CSA NEPSI KTL KCs CML UKEX	Region Global Europe Japan USA USA, Canada Canada China Korea United Kingdom	Product markings Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Please see details in the Certification Records Ex ia IIC T4 Ga; Ex ia IIIC T85 °C Da, see details in the Certificate Ex ia IIC T4 Ga Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da																	
3	Probe Cable Length and Sensor	Probe Model No Probe	Cable	Specification	Sensor																
4	Sensor Protection <small>Transmitter only</small>	Type No Sensor Protection		Pore size	Spare part code																
5	Probe Accessories <small>Transmitter only</small>	Type No Accessories	Specification	Probe compatibility	Spare part code																
6	Transmitter Type <small>Transmitter only</small>	No Display Display	Transmitter without Display and Keypad Transmitter with Display and Keypad																		
7	Output Units <small>This selection applies also to analog outputs</small>	Metric Non-Metric SI-Units	Metric units Non-metric units Fixed metric units																		
8-9	Analog Outputs	Parameter No Analog Output		Scale, Metric (Non-Metric)	Output signal																
	Humidity, temperature, dew point	Humidity Temperature Temperature Temperature Temperature Dewpoint Temperature	RH (%) T (°C °F) T (°C °F) T (°C °F) T (°C °F) Td (°C °F)	0...100 % 0...+60 °C (+32...+ 140 °F) -40...+60 °C (-40...+140 °F) -20...+80 °C (-4...+176 °F) -40...+180 °C (-40...356 °F) -20...+120 °C (-4...+248 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)																
	Moisture in JET A-1 Fuel Moisture in oil	Water Concentration in Fuel Water Concentration in Oil* Relative Saturation Water Activity Saturation temperature	H2O_fuel (ppmw) H2O_oil (ppmw) RS (%RS) a _w Ts (°C °F)	0...500 ppmw 0...500 ppmw 0...100 % 0...1 -40...60 °C (-40...140 °F)	4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state) 4... 20 mA (3.6 mA when in error state)																
	Custom scaling	CH1 Parameter & Scale		CH2 Parameter & Scale																	
	Available parameters for models HMP371... 8 (Humidity & Temp.)	Relative humidity Temperature Dewpoint temperature Dew/frostpoint temperature Dew/frostpoint at 1 atm Dewpoint at 1 atm Absolute humidity Mixing ratio Wet bulb temperature Water concentration Water vapor pressure Enthalpy Water vapor saturation pressure Dewpoint temperature difference Absolute humidity at NTP Water mass fraction	RH (%) T (°C °F) Td (°C °F) Tdf (°C °F) Tdfa (°C °F) Tda (°C °F) a (g/m3 gr/ft3) x (g/kg gr/lb) Tw (°C °F) H2O (ppmv) pw (hPa psi) h (kJ/kg Btu/lb) pws (hPa psi) DT (°C °F) aNTP (g/m3 gr/ft3) H2Ow (ppmw)	Available parameters for model HMP378F (Moisture in oil) Available parameters for model HMP378H (Moisture in JET A-1 fuel)	Temperature Relative saturation Water activity Water concentration in oil Temperature Relative saturation Water activity Water concentration in fuel Saturation temperature	T (°C °F) RS (%RS) a _w H2O_oil (ppmw) T (°C °F) RS (%RS) a _w H2O_fuel (ppmw) Ts (°C °F)															
10	Cable Lead-through <small>NOTE: Please choose the item that meets Ex- requirements in your country. You can use other glands and conduit fittings not listed here if they meet the IP / Ex-requirements. See details in the user documentation.</small>	Type No Cable Glands Cable gland M20x1.5 Cable gland M20x1.5 Conduit fitting M16 Conduit fitting NPT1/2" Cable glands M20x1.5 Cable glands M20x1.5 Conduit fittings M16 Conduit fittings NPT1/2"	Cable diameter dummy plug 5...11 mm 10...14 mm 5...11 mm 10...14 mm	Quantity 1 pc 1 pc 1 pc 1 pc 2 pcs 2 pcs 2 pcs 2 pcs	Spare part code 254931SP 265207SP 265208SP 265243SP 265240SP	Manufacturer, Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC*															
11	Transmitter Accessories <small>Note! All accessories can be ordered as a separate sales order line *) Order as separate lines to Japan</small>	Type No Transmitter Accessories HMT360 retrofit mounting plate USB Service Cable Zener Barrier Zener Barriers Galvanic Isolator Repeater Power Supply Repeater Power Supply	HMT360 Mounting Compatible for Transmitter for 1 Channel for 2 Channels (2 pcs) for 1 Channel for 1 Channel for 2 Channels (1 pc Double Channel)	Spare part code DRW253246SP 219690 210664SP 212483SP 272886SP (Japan: 269756)* 272887SP (Japan: 269757)*	Manufacturer/Type AGRO, EX8720.08* AGRO, EX1826.20.110* Hummel, HSK-MZ-Ex* ABB, EXN/M20-M16/R* ABB, EXN/M20-050/TC* Stahl, 9001/51-280-091-141 Stahl, 9160/13-11-11K GMI, D5014S GMI, D5014D																
12	Reserved	None																			

1. Probe Model
2. Ex Certificate
3. Probe Type
4. Filler
5. Probe Acc.
6. Transmitter Type
7. Output Units
8. CH1 Output
9. CH2 Output
10. Cable Lead-through
11. Transmitter Acc.
12. Not in use

Channel 1
Channel 2

Additional information
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:
HMT370EX 0 1 0 0 N B 1 A C 1 N N



Public Order Form for Global Use
Valid from: September 2022

Purchaser _____

Order no. _____

Intrinsically Safe Humidity and Temperature Probe HMP370EX (spare part)

HMP370EX Probe without Transmitter Unit		HMP370EX			1. Probe Model	2. Ex Certificate	3. Probe Type	4. Filter	5. Probe Accessories	6. Not In use	Price		
1	Probe Model	HMP371	Probe for Wall Mounting		1								
		HMP373	Probe for Confined Spaces		3								
		HMP374	Probe for Pressurized Processes		4								
		HMP375	Probe for High Temperatures		5								
		HMP377	Probe for High Humidities		7								
		HMP378	Probe for Pressurized Pipelines		8								
		HMP378F	Probe for Moisture in Oil		F								
		HMP378H	Probe for Moisture in JET A-1 Fuel		H								
2	Ex Certification Please see details in the Ex-certificate	Certificate	Region	Product markings									
		IECEX	Global	Ex ia IIC T4 Ga / Ex ia IIIC T200 +85 °C Da	1								
		ATEX	Europe	II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da	2								
		CML	Japan	Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da	4								
		FM	USA	IS Class I, II, III, Division 1, Groups A, B, C, D, E, F, G	5								
		MET	USA, Canada	Please see details in the Certification Records	6								
		CSA	Canada	Ex ia IIC T4 Ga; Ex ia IIIC T85°C Da, see details in the Certificate	7								
		NEPSI	China	Ex ia IIC T4 Ga	8								
		KTL KCs	Korea	Ex ia IIC T4 Ga / Ex ia IIIC T200 +85°C Da	9								
		CML UKEX	United Kingdom	II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC T200 +85 °C Da	B								
		3	Probe Cable Length and Sensor Humidity & Temperature	Probe	Cable	Specification	Sensor						
				HMP371	No Cable	Fixed Probe, max +60°C	HUMICAP® R2	A					
HMP373	2m			max +80°C	HUMICAP® R2	B							
	5 m			max +80°C	HUMICAP® R2	C							
	10 m			max +80°C	HUMICAP® R2	D							
HMP373	2m			max +120°C	HUMICAP® R2	E							
	5 m			max +120°C	HUMICAP® R2	F							
	10 m			max +120°C	HUMICAP® R2	G							
HMP374	2m			max +180°C	HUMICAP® R2	H							
	5 m			max +180°C	HUMICAP® R2	J							
	10 m			max +180°C	HUMICAP® R2	K							
HMP375	2m			max +180°C	HUMICAP® R2	L							
	5 m			max +180°C	HUMICAP® R2	M							
	10 m			max +180°C	HUMICAP® R2	N							
HMP377	2m			max +180°C	HUMICAP® R2	P							
	5 m			max +180°C	HUMICAP® R2	R							
	10 m			max +180°C	HUMICAP® R2	S							
HMP378	2m			262mm probe, max +180°C	HUMICAP® R2	T							
	5 m			262mm probe, max +180°C	HUMICAP® R2	U							
	10 m			262mm probe, max +180°C	HUMICAP® R2	V							
HMP378	2m			448mm probe, max +180°C	HUMICAP® R2	W							
	5 m			448mm probe, max +180°C	HUMICAP® R2	Y							
	10 m			448mm probe, max +180°C	HUMICAP® R2	Z							
Moisture in oil and JET-A1 fuel	HMP378F/H			2m	262mm probe, max +180°C	HUMICAP® 180L2	1						
		5 m	262mm probe, max +180°C	HUMICAP® 180L2	2								
		10 m	262mm probe, max +180°C	HUMICAP® 180L2	3								
Temperature only	HMP371 HMP373	No Cable	Fixed Probe, max +60 °C	Temperature sensor only	4								
		2m	max +120 °C	Temperature sensor only	5								
		5 m	max +120 °C	Temperature sensor only	6								
		10 m	max +120 °C	Temperature sensor only	7								
4	Sensor Protection	Type	Specification	Pore size	Spare part code								
		Metallized PPS Plastic Filter Grid with Stainless Steel Mesh for general use		15 µm	DRW010281SP	1							
		Stainless Steel Sintered Filter (AISI 316L) for general use		38 µm	HM47280SP	2							
		Stainless Steel Filter for oil and vacuum environments (AISI 303)		3.15 mm holes	HM47453SP	3							
		Metallized PPS Plastic Filter Grid for fast response in clean environments		6.5 mm gaps	DRW010276SP	4							
		Stainless Steel Filter (AISI 303) with PTFE Membrane		0.2 µm	214848SP	5							
		Stainless Steel Filter for high oil flow applications		2 mm holes	220752SP	6							
5	Probe Accessories Note! All accessories can be ordered as a separate sales order line	Type	Specification	Probe compatibility	Spare part code								
		No Accessories									N		
		Duct Installation Kit		HMP373/377	210697						B		
		Mounting Flange		HMP375	210696						C		
		Ball Valve	ISO 1/2 with Welding Joint	HMP378/F/H	BALL VALVE-1						D		
		Cable Gland for Probe Mounting	M20 x 1.5 with Split Seal	HMP373/HMP375/HMP377	HMP247CG						E		
		Fitting Body for Probe Mounting	M22 x 1.5	HMP374	17223SP						F		
		Fitting Body for Probe Mounting	NPT 1/2	HMP374	17225SP						G		
		Swagelok Probe Fitting	NPT Thread (12mm)	HMP377	SWG12NPT12						H		
		Swagelok Probe Fitting	ISO 3/8 Thread (12mm)	HMP377	SWG12ISO38						J		
		Swagelok Probe Fitting	ISO 1/2" Thread (12mm)	HMP377	SWG12ISO12						K		
		Fitting Body for Probe Mounting	ISO1/2 Solid Structure	HMP378	DRW212076SP						L		
		Fitting Body for Probe Mounting	NPT 1/2 Solid Structure	HMP378	212810SP						M		
		Manual press		HMP378/F/H	HM36854SP						P		
		USB2 Service Cable		All probes	USB2						S		
6	Reserved	None									N		

Additional information

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:

HMP370EX 1 1 A 1 N N