

VAISALA

HMT370EX
Intrinsically Safe Humidity and Temperature Transmitter HMT370EX
For humidity and temperature measurements



HMT370EX Order Form
GD00043EN-C
Valid from May 2024

Sparepart		HMT370EX										
Intrinsically Safe Humidity and Temperature Transmitter HMT370EX		HMT370EX										
1	Probe Model	HMT370 Transmitter Unit only										
		• HMP371 Probe for Wall Mounting										
		• HMP373 Probe for Confined Spaces										
		• HMP374 Probe for Pressurized Processes										
		• HMP375 Probe for High Temperatures										
		• HMP377 Probe for High Humidities										
		• HMP378 Probe for Pressurized Pipelines										
2	Ex certification and Region	IECEx Certificate for HMT370EX and HMP370EX (Global)										
		ATEX Certificate for HMT370EX and HMP370EX (Europe)										
		CML Certificate for HMT370EX (Japan)										
		FM Certificate for HMT370EX (USA and Canada)										
		NEPS Certificate for HMT370EX and HMP370EX (China)										
		KCs Certificate for HMT370EX and HMP370EX (Korea)										
		UKEx Certificate for HMT370EX and HMP370EX (UK)										
3	Probe Cable Length and Sensor	Transmitter only, no probe										
		• HMP371: Fixed Probe, max 60°C										
		HMP373: Probe Cable 2 m, max +80 °C										
		• HMP373: Probe Cable 5 m, max +80 °C										
		• HMP373: Probe Cable 10 m, max +80 °C										
		• HMP373: Probe Cable 2 m, max +120 °C										
		• HMP373: Probe Cable 5 m, max +120 °C										
		• HMP373: Probe Cable 10 m, max +120 °C										
		HMP374: Probe Cable 2 m, max +180 °C										
		• HMP374: Probe Cable 5 m, max +180 °C										
		• HMP374: Probe Cable 10 m, max +180 °C										
		HMP375: Probe Cable 2 m, max +180 °C										
		• HMP375: Probe Cable 5 m, max +180 °C										
		• HMP375: Probe Cable 10 m, max +180 °C										
		HMP377: Probe Cable 2 m, max +180 °C										
		• HMP377: Probe Cable 5 m, max +180 °C										
		• HMP377: Probe Cable 10 m, max +180 °C										
		HMP378: Probe Cable 2 m, Probe 262 mm, max +180 °C										
		• HMP378: Probe Cable 5 m, Probe 262 mm, max +180 °C										
		• HMP378: Probe Cable 10 m, Probe 262 mm, max +180 °C										
		• HMP378: Probe Cable 2 m, Probe 448 mm, max +180 °C										
		• HMP378: Probe Cable 5 m, Probe 448 mm, max +180 °C										
		• HMP378: Probe Cable 10 m, Probe 448 mm, max +180 °C										
		HMP371: Fixed Probe, max +60°C T-only										
		HMP373: Probe Cable 2 m, max +120 °C T-only										
		• HMP373: Probe Cable 5 m, max +120 °C T-only										
		• HMP373: Probe Cable 10 m, max +120 °C T-only										
4	Sensor Protection	Transmitter only										
		• Plastic grid & SBT net filter, All probes	DRW010281SP									
		Sintered Stainless Steel filter, all probes	HM47280SP									
		Stainless Steel Filter for Oil and Vacuum (AISI 303), HMP374/B	HM47453SP									
		Plastic Grid, Fast Response in Clean Environments, not for HMP378H/BF	DRW010276SP									
		Stainless Steel Filter (AISI 303) with PTFE Membrane, HMP377	214848SP									
		Stainless Steel Filter for High Flow Applications	220762SP									
5	Probe Accessories	No Accessories										
		• Duct installation kit, HMP373/7	210697									
		• Mounting Flange, HMP375	210696									
		• Ball Valve ISO1/2 with Welding Joint, HMP378/BF/BH	BALLVALVE-1									
		• Cable Gland for Probe Mounting, M20 x 1.5 with Split Seal, HMP373/5/7	HMP24TCG									
		Fitting Body for Probe Mounting, M22 x 1.5, HMP374	17223SP									
		Fitting Body for Probe Mounting, NPT 1/2, HMP374	17225SP									
		• Swagelok Probe Fitting, NPT 1/2 Thread, 12mm, HMP377	SWG12NPT12									
		• Swagelok Probe Fitting, ISO 3/8 Thread, 12mm, HMP377	SWG12ISO3/8									
		• Swagelok Probe Fitting, ISO 1/2 Thread (12mm), HMP377	SWG12ISO1/2									
		Fitting Body for Probe Mounting, ISO 1/2 Solid Structure, HMP378	DRW010276SP									
		Fitting Body for Probe Mounting, NPT 1/2 Solid Structure, HMP378	212810SP									
		Transmitter without Display and Keypad										
		• Transmitter with Display and Keypad, must be protected against direct sunlight to maintain Ex protection										
7	Output Units	Metric Units										
		Non-Metric Units										
		Metric (SI) -units only, for Japanese market										
8	Analog Outputs Channel 1	No Analog Output										
		RH (0...100%)										
		T (0...+60 °C)										
		T (-40...+60 °C)										
		T (-20...+80 °C)										
		T (-40...+180 °C)										
		Td/H (-20...+120 °C)										
		Td/H (-40...+40 °C)										
		Specify, please specify parameter and scale:										
10	Cable Lead-through ¹⁾	Plugged Lead-Through										
		• Cable Gland M20x1.5 for Cable 5...11 mm	265207SP									
		• Cable Gland M20x1.5 for Cable 10...14 mm	265208SP									
		• Conduit Fitting M20x1.5 M16	265243SP									
		• Conduit Fitting M20x1.5 NPT1/2	265240SP									
		• Cable Gland M20x1.5 for Cable 5...11 mm, 2 pcs										
		• Cable Gland M20x1.5 for Cable 10...14 mm, 2 pcs										
		• Conduit Fitting M20x1.5 M16, 2 pcs										
		• Conduit Fitting M20x1.5 NPT1/2, 2 pcs										
11	Transmitter Accessories	No Transmitter Accessories										
		• Mounting Base HMT360 Mounting Compatible	DRW025344SP									
		• Serial Cable for Transmitter, USB	219690									
		• Zener Barrier for 1 Channel	210644SP									
		• Zener Barriers for 2 Channels	2x 210644SP									
		• Repeater Power Supply for 1 Channels, GM ²⁾	272865SP									
		• Repeater Power Supply for 2 Channels, GM ²⁾	272867SP									

1) Please see details in the Ex-Certificate
2) Please choose the item that meets the Ex-requirements in your country. You can use other glands and conduit fittings provided they meet the IP-EX-requirements. See details in the user documentation
3) Not certified for Japanese market. Please order item code: 269756 instead (order separately)
4) Not certified for Japanese market. Please order item code: 269757 instead (order separately)

Note:	
• Selections in bold are included in the prices of the basic versions.	
• <i>Selections in italic are available at an extra price.</i>	
• <i>Suggested/default selection</i>	
Links:	
User guide	
Datasheet	
Vanessa.com product page	

Accessories and spare parts

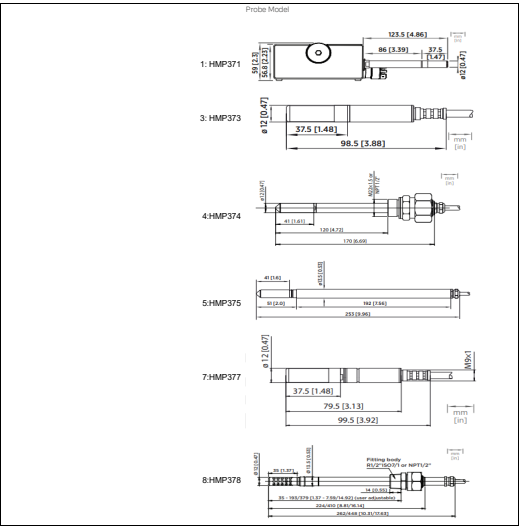
Fitting Body M20x1.5
Fitting Body NPT1/2
Pressure Fitting ISO 1/2 to NPT 1/2
Zener Barrier - Stahl part number 9001/51-280-091-141: 1 barrier per channel
Mounting Flange for 13.5mm Diameter Probe
Duct Installation Kit For 12mm Probe 210697
Calibration Adapter for HMT375
Galvanic Isolator - Stahl part number 9160/13-11-11k
Fitting Body Npt1/2 Solid Structure
Stainless Steel Filter with Membrane
Outdoor Installation kit (Weather shield)
USB Service Cable M8-4F, RS485
Stainless Steel Filter High Flow
Dummy Plug with O-ring, Ex 2 pcs
Cable Gland M20x1.5/12mm, 5.0-11.0mm, Mn/Ni/NBR, IP68
Cable Gland M20x1.5/10mm, 10-14mm, Mn/Ni/PA/NBR, IP68
Conduit Fitting M20x1.5mm, 10Gn, Mn/Ni
Conduit Fitting M20x1.5mm, M16, Mn/Ni
GM1 DS0145 Repeater PSU 1ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail Japan
GM1 DS0145 Repeater PSU 2ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail Japan
Repeater Power Supply 1ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail
Repeater Power Supply 2ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail
480BASE-T SFP For HMT375 and HMT370EX
Ball Valve ISO1/2 with Welding Joint
PPS Plastic Grid Filter
Metal Coated PPS Grid Filter with Stainless Steel Mesh, Female Thread
Fitting Body ISO1/2 Solid Structure
Backplate for HMT370EX HMT360 Mounting Compatible
Manual Press
Sintered Stainless Steel Filter, Female Thread
Stainless Steel Filter
Cable Gland M20x1.5 with Split Seal
Swagelok for 12mm Probe 3/8" ISO Thread
Swagelok for 12mm Probe 1/2" NPT Thread
Indigo-compatible USB Adapter

Part number

1722SP
1722SP
210642SP
210644SP
210696
210697
213202SP
214833SP
212810SP
214848SP
215109
219690
220752SP
254931SP
265207SP
265208SP
265240SP
265243SP
269756
269757
272886SP
272887SP
480BASE-T SFP
BALVALVE-1
DRW010276SP
DRW010381SP
DRW212076SP
DRW253246SP
HM35694SP
HM47280SP
HM47433SP
HMP247CG
SWG120338
SWG12NP12
USB2

Example of order code with typical settings:

	1	2	3	4	5	6	7	8	9	10	11	12
HMP371 Probe for Wall Mounting, HMT370EX	1	1	A	1	0	1	A	C	N	N	N	N
HMP373 Probe for Confined Spaces, HMT370EX	1	1	A	1	0	1	A	C	N	N	N	N
HMP374 Probe for Pressurized Processes, HMT370EX	1	1	A	2	0	1	A	C	N	N	N	N
HMT375 Probe for High Temperatures, HMT370EX	1	1	1	2	0	1	A	C	N	N	N	N
HMP377 Probe for High Humidities, HMT370EX	1	1	P	1	0	1	A	C	N	N	N	N
HMP378 Probe for Pressurized Pipelines, HMT370EX	1	1	2	3	0	1	A	C	N	N	N	N
HMT371 Probe for wall mounting, T only, HMT370EX	1	1	4	2	0	1	D	N	N	N	N	N
HMP373 Probe for Confined Spaces, T only, HMT370EX	1	1	5	2	0	1	D	N	N	N	N	N



VAISALA

HMT370EX

Intrinsically Safe Humidity and Temperature Transmitter HMT370EX

For measurements in oil and JET A-1 fuel



Sparepart				1	2	3	4	5	6	7	8	9	10	11	12
Intrinsically Safe Humidity and Temperature Transmitter HMT370EX				HMT370EX											
hardware	1	Probe Model	HMT370 Transmitter Unit only	O											
			• HMP378F Probe for Moisture in Oil	F											
			• HMP378H Probe for Moisture in JET A-1 Fuel	H											
	2	Ex certification and Region	IECEX Certificate for HMT370EX and HMP370EX (Global)		1										
			ATEX Certificate for HMT370EX and HMP370EX (Europe)		2										
			CML Certificate for HMT370EX (Japan)		4										
			FM Certificate for HMT370EX (USA and Canada)		5										
			NEPSI Certificate for HMT370EX and HMP370EX (China)		8										
			KCs Certificate for HMT370EX and HMP370EX (Korea)		9										
			UKEX Certificate for HMT370EX and HMP370EX (UK)	B											
hardware	3	Probe Cable Length and Sensor	Transmitter only, no probe		0										
			HMP378F/H: Probe Cable 2 m, Probe 215 mm ,max +180 °C		1										
			• HMP378F/H: Probe Cable 5 m, Probe 215 mm ,max +180 °C		2										
			• HMP378F/H: Probe Cable 10 m, Probe 215 mm ,max +180 °C		3										
	4	Sensor Protection	Transmitter only		0										
			Stainless Steel Filter for Oil and Vacuum (AISI 303), HMP374/8	HM47453SP		3									
			Stainless Steel Filter for High Flow Applications	220752SP		6									
	5	Probe Accessories	No Accessories		N										
			• Ball Valve ISO1/2 with Welding Joint, HMP378/BF/BH	BALLVALVE-1		D									
			Fitting Body for Probe Mounting, ISO 1/2 Solid Structure, HMP378	DRW212076SP		L									
hardware			Fitting Body for Probe Mounting, NPT 1/2 Solid Structure, HMP378	212810SP		M									
	6	Transmitter type	Transmitter without Display and Keypad		A										
			• Transmitter with Display and Keypad, must be protected against direct sunlight to maintain Ex-protection!		B										
settings	7	Output Units	Metric Units		1										
			Non-Metric Units		2										
			Metric (SI) -units only, for Japanese market		J										
	8	Analog Outputs Channel 1	No Analog Output									N	N		
	9	Analog Outputs Channel 2	T (0...+60 °C)									B	B		
			T (-40...+60 °C)									C	C		
			T (-20...+80 °C)									D	D		
			T (-40...+180 °C)									E	E		
			JET A-1 Water Concentration (0...500 ppmw)									L	L		
			Mineral transformer oil Water Concentration (0...500 ppmw)									M	M		
hardware			Liquid Relative Saturation (0...100 %)									P	P		
			Liquid Water Activity (0...1)									R	R		
			Liquid Saturation Temperature (-40...+60 °C)									S	S		
			• Special, please specify parameter and scale									X	X		
	10	Cable Lead-through ²	Plugged Lead-Through	254931SP	AGRO, EX8720.08*									0	
			• Cable Gland M20x1.5 for Cable 5...11 mm	265207SP	AGRO, EX1826.20.110*									1	
			• Cable Gland M20x1.5 for Cable 10...14 mm	265208SP	Hummel, HSK-MZ-Ex*									2	
			• Conduit Fitting M20x1.5 M16	265243SP	ABB, EXN/M20-M16/R*									3	
			• Conduit Fitting M20x1.5 NPT1/2	265240SP	ABB, EXN/M20-050/TC*									4	
			• Cable Gland M20x1.5 for Cable 5...11 mm, 2 pcs											5	
hardware			• Cable Gland M20x1.5 for Cable 10...14 mm, 2 pcs											6	
			• Conduit Fitting M20x1.5 M16, 2 pcs											7	
			• Conduit Fitting M20x1.5 NPT1/2, 2 pcs											8	
	11	Transmitter Accessories	No Transmitter Accessories												N
			• Mounting Plate HMT360 Mounting Compatible	DRW253246SP										A	
			• Service Cable for Transmitter, USB	219690										B	
			• Zener Barrier for 1 Channel	210664SP	Stahl, 9001/51-280-091-141									C	
			• Zener Barriers for 2 Channels	2x 210664SP	2x Stahl, 9001/51-280-091-141									D	
			• Repeater Power Supply for 1 Channels, GMI ³	272886SP	GMI, D5014S									H	
			• Repeater Power Supply for 2 Channels, GMI ⁴	272887SP	GMI, D5014D									J	N

1) Please see details in the Ex-Certificate

2) Please choose the item that meets the Ex-requirements in your country. You can use other glands and conduit fittings provided they meet the IP/Ex-requirements. See details in the user documentation

3) Not certified for Japanese market. Please order item code: 269756 instead (order separately)

4) Not certified for Japanese market. Please order item code: 269757 instead (order separately)

Example of order code with typical settings:

1	2	3	4	5	6	7	8	9	10	11	12
HMP378F Probe for Moisture in Oil, HMT370EX	F	1	1	3	L	B	1	P	S	N	N
HMP378H Probe for Moisture in JET A-1 Fuel, HMT370EX	H	1	1	3	L	B	1	P	S	N	N

Note:	Selections in bold are included in the prices of the basic versions.
	• Selections in <i>italic</i> are available at an extra price.
	• Suggested/default selection

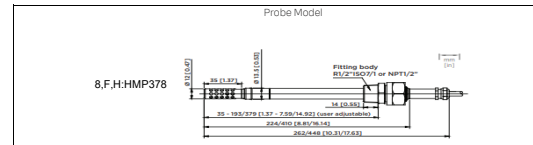
Links:	User guide Datasheet Vaisala.com product page
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Accessories and spare parts

Fitting Body M22x15
Fitting Body NPT1/2
Pressure Fitting ISO 1/2 to NPT 1/2
Zener Barrier - Stahl part number 9001/51-280-091-141: 1 barrier per channel
Mounting Flange for 13.5mm Diameter Probe
Duct Installation Kit For 12mm Probe 210697
Calibration Adapter for HMK15
Galvanic Isolator - Stahl part number 9160/13-11-11k
Fitting Body Npt1/2 Solid Structure
Stainless Steel Filter with Membrane
Outdoor installation kit (Weather shield)
USB Service Cable M8-4F, RS485
Stainless Steel Filter High Flow
Dummy Plug with O-ring, Ex 2 pcs
Cable Gland M20x1.5/12mm, 5.0-11.0mm, MsN/NBR, IP68
Cable Gland M20x1.5/6mm, 10-14mm, MsN/PA/NBR, IP68
Conduit Fitting M20x1.5mm, 1/2in, Ms/Ni
Conduit Fitting M20x1.5mm, 1/2in, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail Japan
GMI D5014S Repeater PSU 1ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail Japan
GMI D5014D Repeater PSU 2ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail Japan
Repeater Power Supply 1ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail
Repeater Power Supply 2ch, SIL3, HART, 18...30VDC, 2.5kV, DIN-Rail
4PROBESETSP For HMP4 and HMT370EX
Ball Valve ISO1/2 with Welding Joint
PPS Plastic Grid Filter
Metal Coated PPS Grid Filter with Stainless Steel Mesh, Female Thread

Part number

17223SP
17225SP
210662SP
210664SP
210696
210697
211302SP
212483SP
212810SP
214848SP
265207SP
265208SP
265240SP
265243SP
269756
269757
272886SP
272887SP
4PROBESETSP
BALLVALVE-1
DRW010276SP
DRW010281SP



Fitting Body Isol/2 Solid Structure
Backplate for HMT370EX HMT360 Mounting Compatible
Manual Press
Sintered Stainless Steel Filter, Female Thread
Stainless Steel Filter
Cable Gland M20x15 with Split Seal
Swagelok for 12mm Probe 3/8" ISO Thread
Swagelok for 12mm Probe 1/2" NPT Thread
Indigo-compatible USB Adapter

DRW212076SP
DRW253246SP
HM36854SP
HM47280SP
HM47453SP
HMP247CG
SWG12ISO38
SWG12NPT12
USB2

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HMP370EX
Intrinsically Safe Humidity and Temperature Probe



		Sparepart	1	2	3	4	5	6
Intrinsically Safe Humidity and Temperature Probe		HMP370EX						N
hardware	1 Probe Model	- HMP371 Probe for Wall Mounting - HMP373 Probe for Confined Spaces - HMP374 Probe for Pressurized Processes - HMP375 Probe for High Temperatures - HMP377 Probe for High Humidities - HMP378 Probe for Pressurized Pipelines - HMP378F Probe for Moisture in Oil - HMP378H Probe for Moisture in JET A-1 Fuel	1					
			3					
			4					
			5					
			7					
			8					
			F					
			H					
	2 Ex certification and Region	IECEx Certificate for HMP370EX (Global)	1					
		ATEX Certificate for HMP370EX (Europe)	2					
		CML Certificate for HMP370EX (Japan)	4					
		FM Certificate for HMP370EX (USA and Canada)	5					
		NEPSI Certificate for HMP370EX (China)	8					
		KCs Certificate for HMP370EX (Korea)	9					
		UKEX Certificate for HMP370EX (UK)	B					
	3 Probe Cable Length and Sensor	HMP371: Fixed Probe, max +60 °C						A
		HMP373: Probe Cable 2 m, max +80 °C						B
		HMP373: Probe Cable 5 m, max +80 °C						C
		HMP373: Probe Cable 5 m, max +80 °C						D
		HMP373: Probe Cable 2 m, max +120 °C						E
		HMP373: Probe Cable 5 m, max +120 °C						F
		HMP373: Probe Cable 10 m, max +120 °C						G
		HMP374: Probe Cable 2 m, max +180 °C						H
		HMP374: Probe Cable 5 m, max +180 °C						J
		HMP374: Probe Cable 10 m, max +180 °C						K
		HMP375: Probe Cable 2 m, max +180 °C						L
		HMP375: Probe Cable 5 m, max +180 °C						M
		HMP375: Probe Cable 10 m, max +180 °C						N
		HMP377: Probe Cable 2 m, max +180 °C						P
		HMP377: Probe Cable 5 m, max +180 °C						R
		HMP377: Probe Cable 10 m, max +180 °C						S
		HMP378: Probe Cable 2 m, Probe 262 mm, max +180 °C						T
		HMP378: Probe Cable 5 m, Probe 262 mm, max +180 °C						U
		HMP378: Probe Cable 10 m, Probe 262 mm, max +180 °C						V
		HMP378: Probe Cable 2 m, Probe 448 mm, max +180 °C						W
		HMP378: Probe Cable 5 m, Probe 448 mm, max +180 °C						Y
		HMP378: Probe Cable 10 m, Probe 448 mm, max +180 °C						Z
		HMP378F/H: Probe Cable 2 m, Probe 215 mm, max +180 °C						1
		HMP378F/H: Probe Cable 5 m, Probe 215 mm, max +180 °C						2
		HMP378F/H: Probe Cable 10 m, Probe 215 mm, max +180 °C						3
		HMP371: Fixed Probe, max +60 °C T-only						4
		HMP373: Probe Cable 2 m, max +120 °C T-only						5
		HMP373: Probe Cable 5 m, max +120 °C T-only						6
		HMP373: Probe Cable 10 m, max +120 °C T-only						7
	4 Sensor protection	Plastic grid & SST net filter, All probes	DRW01028ISP					1
		Sintered Stainless Steel filter, all probes	HM4728OSP					2
		Stainless Steel Filter for Oil and Vacuum (AISI 303), HMP374/8	HM4745SSP					3
		Plastic Grid, Fast Response in Clean Environments, not for HMP378H/8F	DRW010276SP					4
		Stainless Steel Filter (AISI 303) with PTFE Membrane, HMP377	214848SP					5
		Stainless Steel Filter for High Flow Applications	220752SP					6
accessory	5 Probe Accessories	No Accessories						N
		Duct Installation Kit, HMP373/7	210697					B
		Mounting Flange, HMP375	210696					C
		Ball Valve ISO1/2 with Welding Joint, HMP378/8F/8H	BALLVALVE-1					D
		Cable Gland for Probe Mounting, M20 x1.5 with Split Seal, HMP373/5/7	HMP247CG					E
		Fitting Body for Probe Mounting, M22 x1.5, HMP374	17223SP					F
		Fitting Body for Probe Mounting, NPT 1/2, HMP374	17225SP					G
		Swagelok Probe Fitting, NPT 1/2 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, ISO 1/2 Solid Structure, HMP378	DRW212076SP					L
		Fitting Body for Probe Mounting, NPT 1/2 Solid Structure, HMP378	212810SP					M
		Service cable for Probe USB2						S
								N

Note:	Selections in bold are included in the prices of the basic versions.
	• Selections in <i>italic</i> are available at an extra price.
	• Suggested/default selection
Links:	User guide
	Datasheet

Example of order code with typical settings:

	1	2	3	4	5	6
HMP370EX	7	1	A	1	N	N