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## Surface-mounting simple or double thermostat, rigid shaft or capillary output.

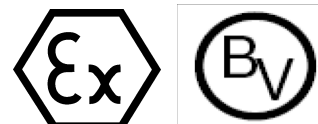
Protection by intrinsic safety and by enclosures.

AMTXs-Ex "i" and "t" type series

Type approval Certificate: 32252/B0 BV

### Features

- k Directive 94/09/CE
- k Housing Protection type IP 6X
- k Max. contact rating 30 V/50mA
- k Possible mounting in zone 0 and/or 20
- k Possibility to adjust in zone 0 and/or 20
- k Temperature range: -50 ... +200°C
- k Gold contacts
- k Compliant with standards EN 60079-0 (2009)  
 EN 60079-11 (2007)  
 EN 60079-31 (2009)



**LCIE 11 ATEX 3039 X  
 IECEx LCIE 13.0077X**

### Description

Explosion protected surface-mounting thermostats of the AMTXs-Ex type series with intrinsic safety "i" and by enclosures "t" are used to control and to monitor thermal process.

In gas area the thermostats AMTXs-Ex could be only fitted to equipment certificated with intrinsic safety and could be used in explosive areas - Zone 0, Zone 1 and Zone 2.

In dust area the **ignition protection class "t"** allows the use of device in Zone 20, 21 and 22.

The thermostats operate according to the fluid or gas expansion principle. If the temperature varies within a measuring system (made up of probe, capillary and membrane), it leads to a volume variation. The expansion of the liquid (which results in temperature variation acts on the microswitch with a lever clamp (mechanical transmission)

**Design as per DIN EN 14597:**

- TW Temperature monitor
- TB Temperature limiter

### ATEX marks

	II 1GD	Device group II, category 1 Equipment for explosive gas atmosphere
	ia IIC T6 Ga	Equipment for explosive gas atmosphere
	t IIIC T80°C Da IP6X	Equipment for explosive dust atmosphere
	-40°C ≤ T <sub>amb</sub> ≤ 60°C	Operating temperature
	Ex ia IIC T6 Ga	Equipment for explosive gas atmosphere
	Ex ia IIIC T85 °C Da	Equipment for explosive dust atmosphere



### Marine Certification



**type AMTXs-Ex/BV (605060/.../BV)**

Désignation: AMTXs-Ex/BV-s (605060/...-1-.../BV) with shaft rigid

Designation: AMTXs-Ex/BV-f (605060/...-2-.../BV) with capillary output

These devices shall not be used for pressure measurement on diesel engine

**Type Approval Certificate: 32252/B0 BV**

08.2018/00574365

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## Areas of application

- k Temperature monitoring for machines and machine tools
- k Shipbuilding
- k Vehicles on railways
- k Chemical industry and petrochemistry
- k Food industry or pharmaceuticals
- k Paper industry

## Technical Data

### Switching function

#### Temperature Monitor TW

If the temperature on the temperature probe exceeds the setpoint value, the microswitch is activated by the transmission mechanics and the electrical circuit is opened or closed. If the temperature falls below the selected setpoint (by the amount of the switching difference), the microswitch is reset to its initial position

#### Temperature Limiter

If the temperature on the temperature probe exceeds the set limit value, the electrical circuit is opened and the microswitch is mechanically locked.

The microswitch can be manually unlocked once the temperature has dropped by approx. 10% of the scale range, after the cover is removed.

### Control ranges and probes specifications

Control / limit value ranges °C	Hysteresis %	max. probe temperature °C	max switch head temperature °C	Probe length, dimension "L" in mm, Probe-Ø „d“ mm Cu material		Minimum length of the immersion tube (without process connection"	
				Probe Ø6 <sup>1)</sup>	Probe Ø8	Probe Ø6	Probe Ø8
-20 to + 40	1	+ 50	+ 50	245	145	250	150
	2,5	+ 50	+ 50	245	145	250	150
	5	+ 95	+ 50	138	91	145	95
	7	+ 100	+ 50	103	73	110	80
0 to + 50	1	+ 60	+ 60	283	165	290	170
	2,5	+ 60	+ 60	283	165	290	170
	5	+ 105	+ 60	159	101	165	105
	7	+ 110	+ 60	117	80	120	85
+20 to +90	1	+ 115	+ 60	210	127	215	130
	2,5	+ 115	+ 60	210	127	215	130
	5	+ 140	+ 60	121	82	125	85
	7	+ 175	+ 60	91	67	95	70
0 to +100	1	+ 125	+ 60	157	100	160	105
	2,5	+ 125	+ 60	157	100	160	105
	5	+ 165	+ 60	94	68	100	75
	7	+ 200	+ 60	73	58	80	65
+30 to +110	1	+ 135	+ 60	188	116	195	120
	2,5	+ 135	+ 60	188	116	195	120
	5	+ 170	+ 60	110	76	115	80
	7	+ 200	+ 60	84	63	90	70
0 to +150	1	+ 173	+ 60	113	78	120	85
	2,5	+ 173	+ 60	113	78	120	85
	5	+ 200	+ 60	72	57	75	60
0 to +200	1	+ 230	+ 60	113	78	120	85
	2,5	+ 230	+ 60				
Control / limit value ranges in °C	Hysteresis in %	max. admissible probe temperature in °C	max admissible housing temperature in °C	Probe length, dimension "L" in mm, Probe-Ø „d“ in mm Cu material		Minimum length of the immersion tube (Without process connection"	
-40 to +100°C	4	220	60	83		90	/

<sup>1)</sup> ø Standard : 6 mm

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<sup>1</sup>Long-distance line length and temperature probe

Type	Scale limit value	Long-distance line	Temperature probe	Remarks
AMTXs-Ex... .	up to 200 °C	Copper (Cu) ø 1,5 mm Material no. Cu-DHP	Copper (Cu) Material no. Cu-DHP hard soldered	Probe and long-distance line possible in 1.4571
Long-distance line length	5000 mm max.			Others length on request
min. bending radius of the capillary	5 mm			

**Note: temperature range -40°C to +100°C only for AMTXs-Ex-s and AMTXs-Ex-s/BV**

**Electrical Data**

$U_i \leq 30 \text{ V}$ ,  $I_i \leq 50 \text{ mA}$ ,  $P_i \leq 0,75 \text{ W}$ ,  $C_i = 0$ ,  $L_i = 0$

Gold contact

**Electrical connection**

On screw type terminal block(s) is directly accessible(s) after the cover is removed, towards the top of the housing.

Terminal spotted C (common), NC (nomally closed) end NO (normally opened)

Screw type earth connection is top right (interior or exterior connection possible).

Connection to the ground is by female faston lug.

**Operating data**

<b>Switching point accuracy in % of control range/ limit value range</b>	Switching difference		In the upper third of the scale or limit value	
	1 %, 2,5 % 5 % 7 %		+/- 1,5 % +/- 3 % +/- 4 %	
<b>Mid ambient temperature influence</b>	Deviation of the ambient temperature at the switching head and/or capillary from the 22 °C calibration ambient temperature produces a switching point offset. Higher ambient temperatures = lower switching point Lower ambient temperature = higher switching point			
	Switching difference in %			
	1 / 2,5	5	7	
	Ambient temperature influence on the switching head in %/K			
	0,15	0,26	0,34	
	Ambient temperature influence on the capillary in %/m			
	0,05·K·m		0,09·K·m	
<b>Admissible storage temperature</b>	-50 to +50 °C			
<b>Admissible ambient temperature for use</b>	- 40 to +80 °C			
<b>Nominal position (NL)</b>	Any			

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## Casing

<b>Material</b>		Casing and cover in Aluminium cast-iron, blue Ral 5003
<b>Setpoint value setting</b>	AMTXs-Ex-2	Switching point adjustable with a screwdriver after removing the case
	AMTXs-Ex-5	Limit value adjustable with a screwdriver after removing the case
	AMTXs-Ex-23	Switching point adjustable with a screwdriver after removing the case 1 sequential factory-set value (deviation/ indicate the these value at the order)
	AMTXs-Ex-24	Switching point adjustable with a screwdriver after removing the case 1 sequential factory-set limit value (deviation/ indicate these value at the order)
	AMTXs-Ex-54	Limit value adjustable with a screwdriver after removing the case 1 sequential factory-set limit value (deviation/ indicate these value at the order)
	AMTXs-Ex-2-2 AMTXs-Ex-2-3	Switching point adjustable with a screwdriver after removing the case 2 sequential factory-set value (deviation/ indicate the these value at the order)
	AMTXs-Ex-2-5	1 switching point and 1 limit value independant adjustable with a screwdriver after removing the case
<b>Protection type</b>	EN 60 529-IP 65	
<b>Cable inlet</b>	Ex cable screw connection M20x1,5 on the top or side of the casing	
<b>Switch head fastening</b>	With 4 screws once the cover is removed (in option 1 mounting plate with 2 screws)	
<b>Weight (without sheaths)</b>	Thermostat with 1 limit value: approx. 0,920 kg	
	thermostat with 2 limits values: approx. 1,030 kg	

### Process connection

<b>Series AMTXs-Ex-.f.. (form 2)</b>	Plain cylindrical probe (10) with ATEX "i" / "t"- cable screw connection
<b>Series AMTXs-Ex-s... (form 1)</b>	Seath* welded mechanic screwed on 1/2"G process connection, itself screwed on the casing
<b>Material of sheath</b>	CrNi of serie
<b>Fitting length S</b>	Standard lengths, with process connection : 100, 150, 200 or 300 mm
<b>Immersion tube Ø</b>	1 limit value or 1 limit value + 1 sequential: D = 8 mm (different lengths on request)
	2 limits values: D = 15 mm

\* If the sheath is used from area 0 to area 1, the theckness of it must be ≥ 1 mm

### Options :

- Other material of the sheath: brass alloy nickel
- Sheath machined from solid
- Specials lengths on request
- Fixation: depending on the customer's process

### Note:

- k Only 2 probes of Ø 6 mm for the double thermostat
- k Only version with Seath for the double thermostat

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## Approvals/ approval marks

Types	switching function	Certificates/ test certificate	Test
AMTXs-Ex-2	TW adjustable	LCIE 11 ATEX 3039 X IECEX LCIE 13.0077x	ATEX IECEX
AMTXs-Ex-3	TW permanently set at the factory		
AMTXs-Ex-4	TB permanently set at the factory		
AMTXs-Ex-5	TB adjustable		
AMTXs-Ex-23	TW +TW sequential		
AMTXs-Ex-33	TW + TW sequential value permanently factory-set		
AMTXs-Ex-24	TW + TB sequential		
AMTXs-Ex-34	TW + TB sequential value permanently factory-set		
AMTXs-Ex-44	TB + TB sequential value permanently factory-set		
AMTXs-Ex-54	TB + TB sequential		
AMTXs-Ex-2-2	2 TW independents		
AMTXs-Ex-2-3	2 TW independents (with one permanently factory-set)		
AMTXs-Ex-3-3	2 TW independents permanently factory-set		
AMTXs-Ex-2-5	1 TW + 1TB independents		
AMTXs-Ex-3-4	1 TW + 1 TB independents permanently factory-set		

Ignition protection class	Ex ia				
	Ex	General regulations	Sandard European	EN 60079-0 (2009)	
	ia	Intrinsic safety		EN 60079-11 (2007)	
	IIC	Gas group			
	T6	Temperature class			
	Ga	Degree of protection EPL			
Ignition protection class	Ex t				
	Ex	General regulations		EN 60079-0 (2009)	
	t	Protection by enclosure		EN 60079-31 (2009)	
	IIIC	Dust group			
	T80°C	<b>Max. admissible surface temperatur (use in flammable dust)</b>			
	Da	Degree of protection EPL			
	IP6X	Protection type against the penetration of external solid			



## Connection diagrams

AMTXs-2 AMTXs-3		AMTXs-4 AMTXs-5	
AMTXs-4U AMTXs-5U		AMTXs-23 AMTXs-33	
AMTXs-24		AMTXs-24/U	
AMTXs-44 AMTXs-54		AMTXs-44/U AMTXs-54/U	
AMTXs-44/UU AMTXs-54/UU		AMTXs-2-2 AMTXs-2-3 AMTXs-3-3	
AMTXs-2-5 AMTXs-3-4		AMTXs-2-5U AMTXs-3-4U	
U = option 574			

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## Accessories

### Galvanic insulator Si

Protection against explosions:

**Module 1 channel** : Type 9170/10-11-11s IS PAC

Binary input SI

Output NSI: 2 Change-over contact (125V/ 1A)

Modul power supply 24 VDC

**Module 2 channels** : 9710/20-10-11s IS PAC

Binary input SI

Output NSI : 1 Change-over contact (125V/ 1A)

**Modul power supply 24 VD**



II 3 (1) G Ex nAc nCc [ia] IIC T4



II (1) D [Ex iaD]

### PAC-Bus

To simply power, 1 PAC by module (Ref. 9194/31-17 IS PAC PAC-Bus)

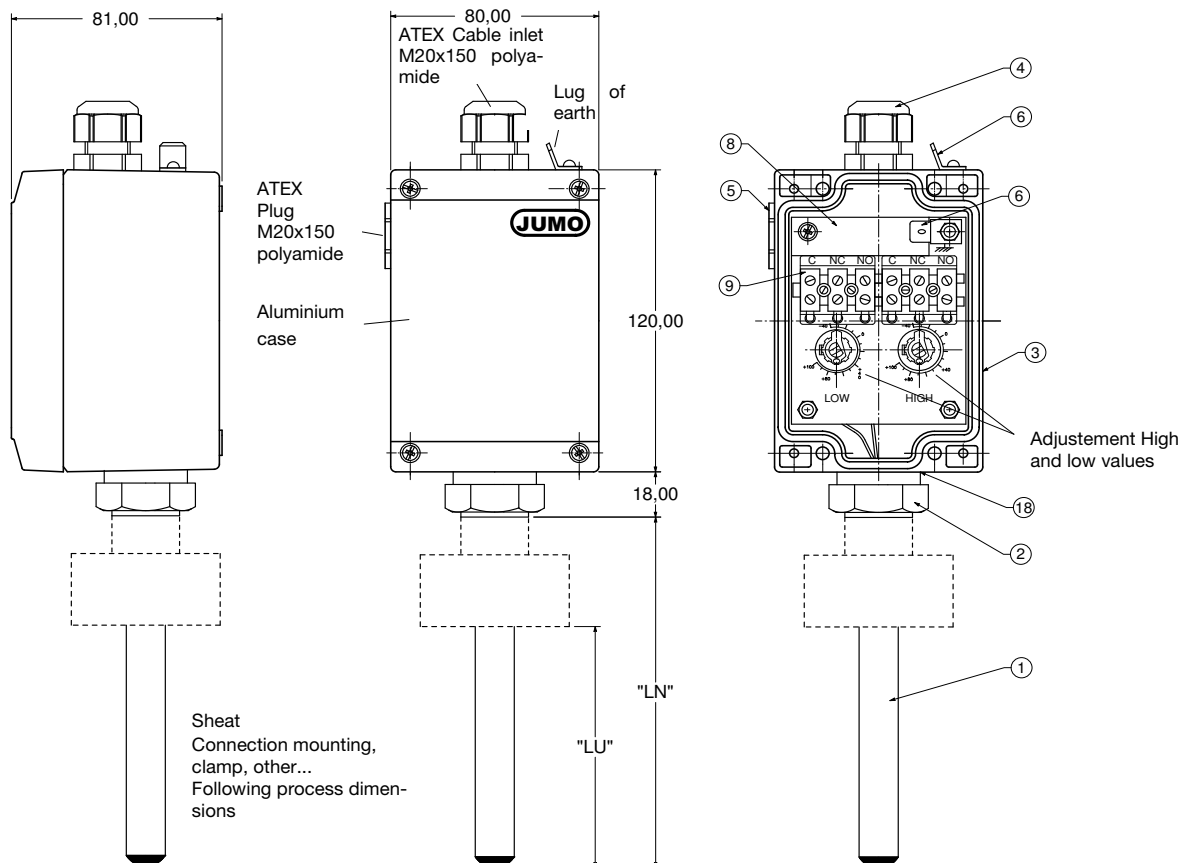
### Terminal kit for PAC-Bus

1 set by rail DIN (Ref 9194/50-01 IS PAC)



## Dimensions

### Versions with rigid shaft



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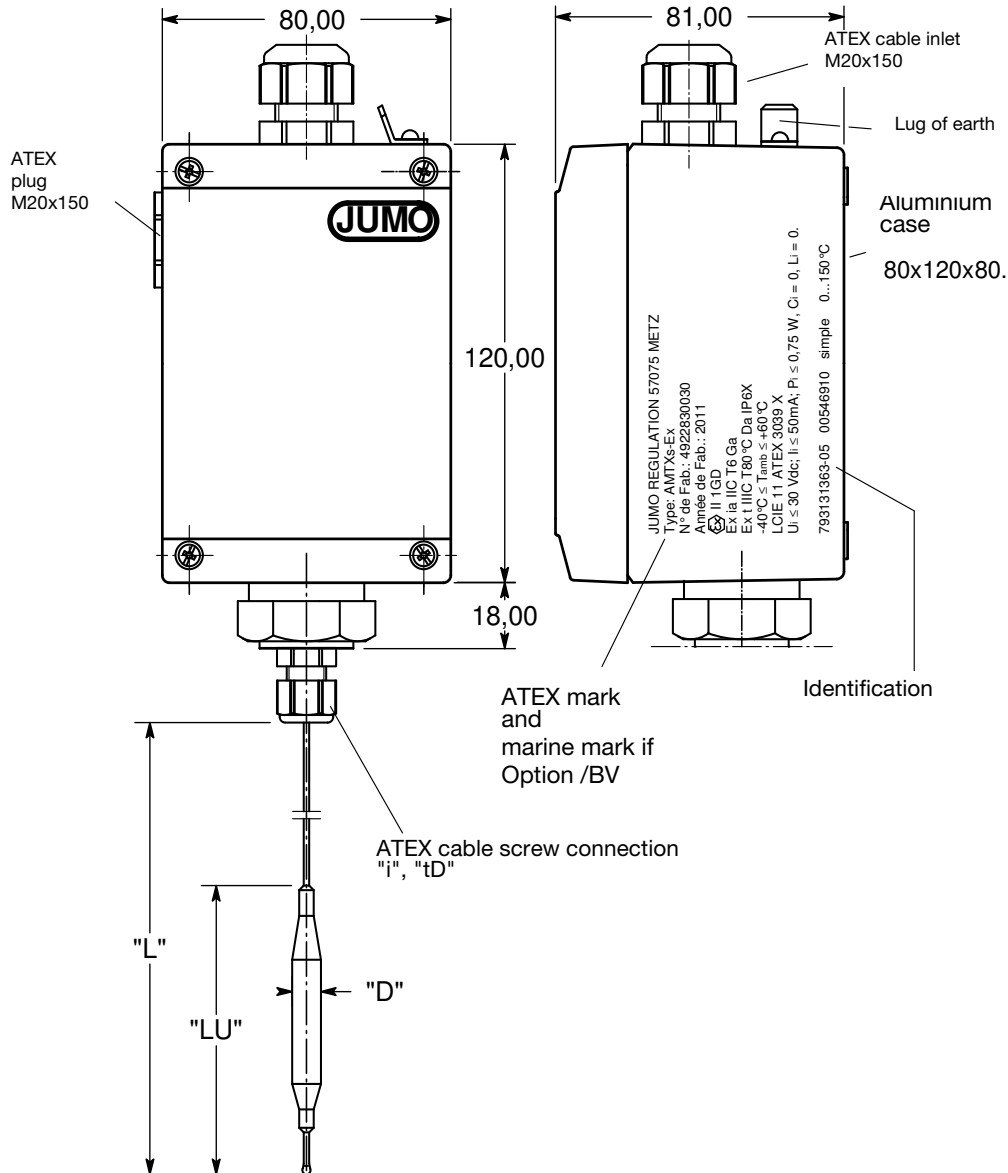
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Version with long distance length





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**Order details: type series AMTXs -Ex**

Order code		(1) Basic type
605060		Surface-mounting thermostat for explosive atmosphere, type series AMTXs-Ex
		BV/ = authorized execution with extra code Marine Certification - type series AMTXs-Ex/BV
BV		<b>(2) Basic type extension (function)</b>
X	0002	AMTXs-Ex-2 Temperature monitor TW <b>Simple thermostat</b>
X	0003	AMTXs-Ex-3 Temperature monitor TW permanently factory-set
X	0004	AMTXs-Ex-4 Temperature limiter TB permanently factory-set
X	0005	AMTXs-Ex-5 Temperature limiter TB
X	0023	AMTXs-Ex-23 Bipolar temperature monitor TW
X	0033	AMTXs-Ex-33 Bipolar temperature monitor, permanently factory-set TW
X	0024	AMTXs-Ex-24 Bipolar temperature monitor TW TB
X	0034	AMTXs-Ex-34 Bipolar temperature monitor TW TB, permanently factory-set
X	0044	AMTXs-Ex-44 Bipolar temperature limiter TB TB, permanently factory-set
X	0054	AMTXs-Ex-54 Bipolar temperature limiter TB TB
X	0202	AMTXs-Ex-2-22 Independent temperature monitor TW TW <b>Double thermostat</b>
X	0203	AMTXs-Ex-2-32 Independent temperature monitor TW TW (permanently factory-set)
X	0303	AMTXs-Ex-3-32 Independent temperature monitor TW TW (permanently factory-set)
X	0205	AMTXs-Ex-2-51 temperature monitor and 1 temperature limiter independent TW TB
X	0304	AMTXs-Ex-3-41 temp. monitor and 1 temp. limiter independent TW TB (permanently factory set)
BV	X	<b>(3) Design</b>
	1	AMTXs-Exs with rigid sheat
	2	AMTXs-Exf with long-distance line (only for simple thermostat)
BV	X	<b>(4) Control / limit value ranges 1 (°C)</b>
	013	-20 to +40
	021	0 to +50
	041	+20 to +90
	025	0 to 100
	052	+30 to +110
	027	0 to +150
	028	0 to +200
	112	-40 to +100
BV	X	<b>(5) Control / limit values ranges 2 (°C)</b>
	000	simple thermostat
	013	-20 to +40
	021	0 to +50
	041	+20 to + 90
	025	0 to +100
	052	+30 to +110
	027	0 to +150
	028	0 to +200
	112	-40 to +100
BV	X	<b>(6) Switching difference 1</b>
	10	1 % of the scale range
	25	2,5 % of the scale range
	40	4 % of the scale range*
	50	5 % of the scale range
	70	7 % of the scale range
		* only for scale range -40 to +100 °C
BV	X	<b>(7) Switching difference 2</b>
	10	1 % of the scale range
	25	2,5 % of the scale range
	40	4 % of the scale range*
	50	5 % of the scale range
	70	7 % of the scale range
		* only for scale range -40 to +100 °C

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	X	X		<b>(8) Capillary length 1 (mm)</b>	
BV			000	without capillary	
BV			1000	1000 mm	
BV			2000	2000 mm	
BV			3000	3000 mm	
BV			4000	4000 mm	
BV			5000	5000 mm	
			.....	special length, indication in mm (max. admissible length, see technical data)	
		X		<b>(9) Capillary length 2 (mm)</b>	
BV			000	without capillary	
BV			1000	1000 mm	
BV			2000	2000 mm	
BV			3000	3000 mm	
BV			4000	4000 mm	
BV			5000	5000 mm	
			.....	special length, indication in mm (max. admissible length, see technical data)	
BV	X	X		<b>(10) Capillary material 1</b>	
			00	without long-distance line	
			40	Cu (Copper)	
			20	CrNi (stainless steel 1.4571)	
BV		X		<b>(11) Capillary material 2</b>	
			00	without long-distance line	
			40	Cu (copper)	
			20	2 CrNi (stainless steel 1.4571)	
BV	X	X		<b>(12) Process connection</b>	
			10	Plain cylindrical probe	
			20	Screw-in sheath	
BV	X	X		<b>(13) Thread of process connection</b>	
			00	Without thread	
			13	External thread G 1/2	
			14	External thread G 3/4	
			15	External thread G 1	
			21	External thread G 1/2 conical	
			22	External thread G 3/4 conical	
			68	External thread 1/2-14NPT	
			69	External thread 3/4-14NPT	
			...	External thread 1"NPT	
			...	Other on request	
	X	X		<b>(14) Material of process connection</b>	
BV			00	Without process connection	
BV			20	CrNi (stainless steel 1.4571)	
			....	other on request	
	X	X		<b>(15) Fitting length "S" (immersion tube length)*</b>	
BV			000	Without sheath	
BV			100	100 mm	
BV			150	150 mm	
BV			200	200 mm	
BV			250	250 mm	
BV			300	300 mm	
BV			500	500 mm	
BV			....	Other lengths on request (indication in mm) 500 mm max for execution /BV	

\*Important note: take in account the minimal length of the probe (see table on page 2)

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BV	X	X		<b>(16) Diameter "D" (immersion tube diameter)</b>
			00	Without sheath
			9	Ø 9x1 mm (only for simple thermostat)
			11	Ø 11x1 mm (only for simple thermostat)
			13	13 mm (only for simple thermostat)
			15	Ø 15 x1 mm
BV	X	X		<b>(19) Diameter "d" (probe diameter)</b>
			6	6 mm
			8	8 mm (only for simple thermostat)
	X	X		<b>(20) Extra code</b>
BV			000	without extra codes
BV			574	Microswitch with N/C contact, restart lock, and additional signal contact (only for TB)
BV			707	TK temperature compensation
BV			247	Mounting plate
BV			270	sheath machined from solid
			754	Probe and capillary with stainless steel flexible shieldin
BV			624	O <sub>2</sub> Degreassing sheath
BV			911	Additional cable inlet
BV			BV	Execution with Marice certification BV Type approval certificate
BV			372	IECEX Option

B  
V

## Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)  
 605060 / [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] / [ ]

### Order example

605060 / 0202 - 1 - 25 - 25 - 25 - 25 - 0 - 0 - 0 - 0 - 20 - 13 - 20 - 200 - 15 - 6 / 0

### Order example with extra code Marine certification: type approval Certificate BV

605060 / 0023 - 1 - 028 - 000 - 25 - 00 - 0 - 0 - 0 - 0 - 20 - 13 - 20 - 150 - 9 - 6 / BV