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Surface-Mounted Thermostat ATH series

Special features

- Sturdy case (protection type IP 54))
- Microswitch
- Self-monitoring (STB/STW (STB)) in the event of a pressure drop
- Safety cut-out (STB/STW (STB))
- Tested according to DIN EN 14597
- Pressure Equipment Directive 2014/68/EU



Brief description

Thermostats control and monitor thermal processes. Instruments of the ATH series are available as temperature controllers TR, temperature monitors TW, safety temperature monitors STW (STB), and safety temperature limiters STB. When malfunctions occur, the STB places the system being monitored in a safe operating status.

Surface-mounted thermostats operate according to the fluid expansion principle – a microswitch is used as an electrical switching element.



Switching function

Temperature controller TR and 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 value (by the amount of the switching differential), the microswitch is reset to its initial position.

Restart lock on the safety temperature limiter STB

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 dangerous temperature drops by approx. 10 % of the scale range (approx. 15 % with a limit value setting > +350 °C).

Using the safety temperature monitor STW (STB) as a safety temperature limiter STB The circuit following the thermostat must comply with DIN EN 14597 and VDE 0116.

Self-monitoring on the safety temperature limiter STB and the safety temperature monitor STW (STB)

If the measuring system is destroyed (i.e. if the expansion fluid escapes) the pressure in the membrane of the STB and STW (STB) drops and permanently opens the electrical circuit. Unlocking is then no longer possible.

The electrical circuit opens when cooling the probe of STW (STB) and STB down to the negative temperature range, but it then closes again if the temperature rises. The STB must be unlocked manually if the minimum probe temperature is exceeded. The STW (STB) unlocks itself automatically





V5.00/EN/00073225



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Approvals

Тур	Types S		DIN registry no.	Tests		
With rigid ther- mowell	With capillary	function				
ATH-1	ATH-1	TR	TR 891		You will find Declarations	
ATH-2	ATH-2	TW	TW 892	Geprüft	of Conformity on	
ATH-20	ATH-20	STW (STB)	STW (STB) 894 S	- DIN EN 14597	the Internet at: www.jumo.net	
ATH-70	ATH-70	STB	STB 895	- Pressure Equipment Directive 2014/68/EU		
				DGRL (ATH-20 and ATH-70 only)		
ATH all		all	EAC-approval marks ^a TC RU C-DE.AB98.B.00348	Gost Norm AG	Technical rules of the cus- toms union Russia/ Belarus/Kazakhstan	

^a Russian documentation upon request



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Technical data

Control ranges and temperature probes

		Liquid	-filled			
Туре	Control range / limit value range in °C	Max. allowable probe temperature in °C	Maximum capillary length in mm	Probe length, dimension "L" in mm Probe ø "d" in mm, ø "6" = standard		
				6	8	
ATH-1 ATH-2	$\begin{array}{r} -20 \text{ to} + 50 \\ -10 \text{ to} + 40 \\ 0 \text{ to} + 50 \\ 0 \text{ to} + 100 \\ +20 \text{ to} + 90 \\ +20 \text{ to} + 120 \\ +20 \text{ to} + 120 \\ +30 \text{ to} + 110 \\ +50 \text{ to} + 200 \\ +50 \text{ to} + 200 \\ +50 \text{ to} + 250 \\ +50 \text{ to} + 300 \\ +50 \text{ to} + 350 \\ +60 \text{ to} + 130 \end{array}$	60 50 60 125 115 140 175 135 230 290 345 405 150	5000	141 185 185 107 138 106 88 125 101 73 63 53 135	92 115 115 75 91 75 65 84 72 54 49 90	
ATH-20 ATH-70	+20 to +150 +30 to +110 +50 to +250 +50 to +300 +60 to +130	175 135 290 345 150	5000	77 108 64 55 116	60 75 49 79	
	-	Gas-	filled			
ATH-1 ATH-2	+20 to +400 +20 to +500 +20 to +500	460 575 575	1000 2000 4000	278 148 202	158 92 119	
ATH-20 ATH-70	+20 to +400 +20 to +500 +20 to +500	460 575 575	1000 2000 4000	176 127 202	106 81 119	

Capillary and temperature probe

Туре	Scale limit value	Capillary	Temperature probe	Comments		
ATH	Up to 200 °C	Copper (Cu) ø 1.5mm Material-no. Cu-DHP	Copper (Cu) Material-no. Cu-DHP Hard soldered	-		
	Up to 350 °C	Copper (Cu) ø 1.5mm Material-no. Cu-DHP	1.5mm Material no. 1.4571			
	Up to 500 °C	Stainless steel (CrNi) ø 1.5mm	Stainless steel (CrNi) Material no. 1.4571 Welded	-		
	Up to 350 °C	Stainless steel (CrNi) ø 1.5mm	Stainless steel (CrNi) Material no. 1.4571 Welded	Available at extra cost		
Capillary length	1000 mm, max. 5000 mm as standard					
Minimum bending radius of the capillary	5 mm					



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Electrical data

Switching element	ATH-1 ATH-2 ATH-20	ATH-70		ATH-70/574		
	Microswitch with changeover contact		with N/C contact restart lock	Microswitch with N/C contact, restart lock, and additional signal contact		
Max. switching capacity	AC 230 V +10 %, 10 (2) A, cos φ = 1 (0.6) DC 230 V +10 %, 0.25A					
	With switching differential 1.5 % and 2 % AC 230 V +10 %, 6 (1.2) A, $\cos \phi = 1$ (0.6)		-	-		
	Gold-plated microswitch, extra code 702* (* for 3 %, 5 %, and 7 % switching differentials only) 24 V AC / DC, 0.1 A Contact resistance 2.5 to 10 m					
Contact reliability	To ensure a high switching reliability, we recommend a minimum load of:					
	With silver contacts: AC / DC = 24 V, 100 mA		For gold-plated contacts (extra code"702"): AC / DC = 10 V, 5 mA			

Operating data

Switching differential	Switching fur	nction		W	ith liquid-filled measu	iring system		
in % of the control range /			No	minal value	Possible actual	value		
limit value range	TR, TW	1		3	3 max. 4		Standard	
				6	6 max. 8		Upon request	
				1.5	1 max. 2		Extra cost	
				V	Vith gas-filled measur	ring system		
				5	4 max. 8		Standard	
				9	8 max. 12		Upon request	
				2	1.5 max. 2.5	5	Extra cost	
				W	ith liquid-filled measu	iring system		
	STW (ST	В)		5	4 max. 6		Standard	
				9	8 max. 11		Upon request	
				2	1 max. 3		Extra cost	
	-		With gas-filled measuring system					
				7	5 max. 12		Standard	
				9	8 max. 16		Upon request	
				2	1.5 max. 3		Extra cost	
Switching point accu- racy in % of the con- trol range / limit value range Ambient temperature influence based on the control range /	TR, TW: In the upper third of the scale ± 1.5 %, at scale beginning ± 6 % STB, STW (STB): In the upper third of the scale +0/-5 %, at scale beginning +0/-10 % When the ambient temperature on the case deviates from the calibration ambient temperature of 22 °C, a switching point offset occurs. Higher ambient temperatures = lower switching point Lower ambient temperature = higher switching point							
limit value range	Surface-mounted thermostats with scale limit value							
	< 2	00 °C		÷200 °C	≤ 350 °C	> 350 °	C ≤ 500 °C	
	TR / TW	STB/STV	V (STB)	TR / TW	STB/STW (STB)	TR / TW	STB/STW (STB)	
		•		Influence on the	e switching head			
	0.08%/K	0.179	%/K	0.06 %/K	0.13%/K	0.14%/K	0.12%/K	
				Influence on the	capillary per meter		·	
	0.047 %/K	0.054	%/K	0.09 %/K	0.11%/K	0.04 %/K	0.03 %/K	
Admissible storage temperature	-50 to +80 °C or up to max. permissible ambient temperature (see nameplate)					e)		
Admissible ambient temperature during use	see nameplate							



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Case

Standard	Case lid: polyc	carbonate, shock resistant	Color: pebble gray RAL 7032		
		section: aluminum die casting, painted	Color: anthracite gray RAL 7015		
Extra code "701"	Case lid made	of aluminum die casting, painted	Color: pebble gray RAL 7032		
Setpoint value adjustment	ATH-1: Switching poir with the rotary	nt can be adjusted externally knob	ATH-2, ATH-20, ATH-70 Switching point can be adjusted with a screwdriver once the case lid has been removed		
Protection type		Design 1 + 2:	EN 60529-IP54		
Cable inlet		Standard: self-sealing grommet M20 × 1.5, sealing range 8 to 10 mm			
Weight		Approx. 0.5 kg			
Switching head mounting	Standard	Screw connection with counter nut M18 \times 1 on the case spigot, capillary exit on the case spigot			
ATH series with capillary	Extra code				
with oupmany	711	With 2 screws through the case bottom section, lateral capillary exit on the case, lid and bottom part made of plastic			
	764	Mounting flange made of steel sheet, capi	llary exit on the case spigot		
	248	Wall mount			

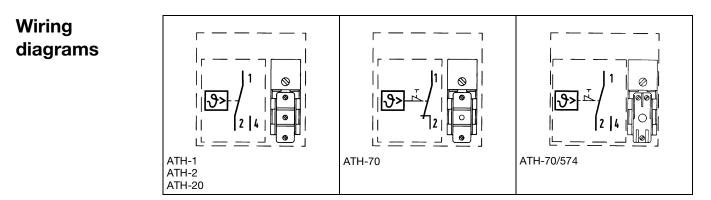
Process connection*

Series ATH-	Scale limit value <u>up to</u> 150 °C protection tube "20"	Scale limit value <u>exceeding</u> 150 °C protection tube "30"			
with rigid thermowell	Screw-in sleeve with screw-in spigot G 1/2 form A according to DIN 3852/2	Screw-in sleeve with screw-in spigot G 1/2 form A according to DIN 3852/2 and intermediate piece, to ensure that the max. admissible ambient temperature of is not exceeded on the case			
Туре	Plain cylindrical probe "10" (standard)				
ATH- With capillary	Screw-in protection tube "20" (upon request)				
	Screw-in sleeve with screw-in spigot G 1/2 form A acc. to DIN 3852/2 and clamping piece with fixing screw to lock the probe in place				
Material	Protection tube "20"	Protection tube "30"			
	Up to +150 °C CuZn as standard over +150 °C CrNi	Above +150 °C CrNi			
Insertion length S	Standard lengths: 100, 120, 150, 200, or 300 mm different lengths upon request				
Immersion tube Ø	D = 8 mm, D = 10 mm				

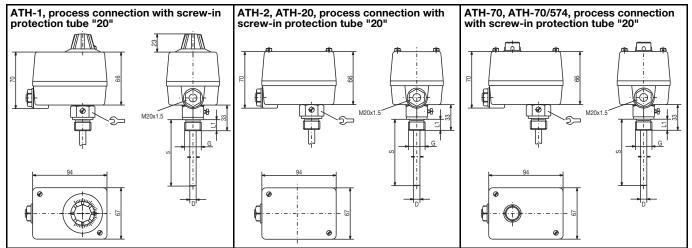
* For different process connections and protection tube refer to data sheet 606710.



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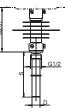


Dimensions, versions with rigid thermowell

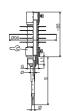


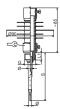
Process connection with screw-in protection tube "30" and intermediate piece for scale limit value above +150 °C:

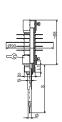




Process connection with protection tube "31" screw-in protection tube with intermediate piece, open:









(delivery within 3 working days after receipt of order)

Data Sheet 603021

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Stock versions with rigid thermowell

Temperature controller (TR)

Part no.	Туре	Control range / limit value range °C	Switching differential %	Process connection screw-in tube	Immersion tube Ø × length mm
60001517	ATH-1	-10 to + 40	3-4		8 x 200
60000634	ATH-1	0 to + 50	1.5		15 x 100 CrNi
60001548	ATH-1	0 to +100	3-4		8x120 CrNi
60001125	ATH-1	0 to +100	3-4		8x150
60000174	ATH-1	0 to +100	1.5	"20" G ¹ / ₂	8 x 200
60001126	ATH-1	0 to +100	3-4		8 x 200
60000481	ATH-1	+20 to +150	3-4		8x100
60001035	ATH-1	+20 to +150	3-4		8 x 200
60001127	ATH-1	+20 to +150	3-4		8x300
60003316	ATH-1	+50 to +200	3-4		8x200 CrNi
60003317	ATH-1	+50 to +300	3-4	"30" G ¹ / ₂	8x150 CrNi
60003318	ATH-1	+20 to +500	5		8x200 CrNi

Stock versions with rigid thermowell

Temperature monitor (TW)

(delivery within 3 working days after receipt of order)

Part no.	Туре	Control range / limit value range °C	Switching differential %	Process connection screw-in tube	Immersion tube Ø × length mm
60001135	ATH-2	-10 to + 40	3-4		8 x 200
60001549	ATH-2	0 to + 50	1.5		15 x 100 CrNi
60001128	ATH-2	0 to + 50	3-4		8 x 200
60000177	ATH-2	+20 to + 90	1.5		15x100
60000959	ATH-2	+20 to + 90	6-8		15x100
60001129	ATH-2	+20 to + 90	3-4		8x150
60001552	ATH-2	0 to +100	3-4	"20" G ¹ / ₂	8x120 CrNi
60000179	ATH-2	0 to +100	3-4		8x150
60001039	ATH-2	0 to +100	3-4		8 x 200
60001130	ATH-2	0 to +100	3-4		8x300
60001551	ATH-2	+20 to +150	3-4		8x100 CrNi
60001554	ATH-2	+20 to +150	3-4		8x200 CrNi
60000182	ATH-2	+20 to +150	3-4		8x300
60003319	ATH-2	+50 to +200	3-4		8x120 CrNi
60001556	ATH-2	+50 to +300	3-4	"30" G ¹ / ₂	8x150 CrNi
60003322	ATH-2	+20 to +500	5		8x200 CrNi

Safety temperature monitor STW (STB)

(delivery within 3 working days after receipt of order)

	_	· ·	,		•••
Part no.	Туре	Control range / limit value range °C	Switching differential %	Process connection screw-in tube/ weld-in tube	Immersion tube Ø × length mm
60001478	ATH-20	+20 to +150	4-6	"20" G ¹ / ₂	8x150
60003323	ATH-20	+50 to +300	5	"30" G ¹ / ₂	8x200 CrNi
60002217	ATH-20	+50 to +350	4-6	"46" G ³ / ₄	170 steel, conical
60003324	ATH-20	+20 to +500	7	"31" G ¹ / ₂	8x200 CrNi



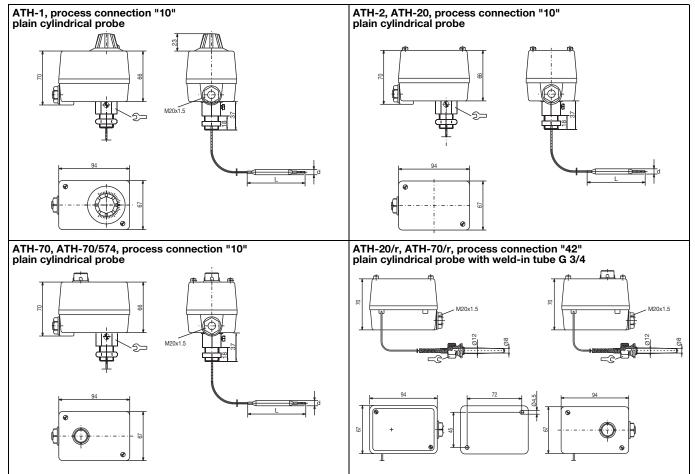
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Stock versions with rigid thermowell

Safety temperature limiter (STB)

Safety te	mperature lii	miter (STB)	(delivery within 3 working days after receipt of order)		
Part no.	no. Type range differential screw-in		Process connection screw-in tube/ weld-in tube	Immersion tube Ø × length mm	
60001043	ATH-70	+ 30 to +110			8 x 200
60000189	ATH-70	+ 30 to +110		"20" G ¹ / ₂	8x300
60001044	ATH-70	+ 60 to +130		20 G /2	8x150
60000190	ATH-70	+ 60 to +130			8 x 200
60003325	ATH-70	+130 to +200		"30" G ¹ / ₂	8x150 CrNi
60003327	ATH-70	+ 50 to +300		30 G /2	8x200 CrNi
60001524	ATH-70/574	+ 30 to +110		"20" G ¹ / ₂	8x150
60001522	ATH-70/574	+ 20 to +150		20 G /2	8 x 200
60003328	ATH-70/574	+ 50 to +300		"30" G ¹ / ₂	8 x 200 CrNi
60002218	ATH-70/574	+ 50 to +350		"46" G ³ / ₄	170 steel, conical
60003329	ATH-70/574	+ 20 to +500		"31" G ¹ / ₂	8 x 200 CrNi
60001476	ATH-70/574	+ 20 to +500		"30" G ¹ / ₂	8x200 CrNi

Dimensions, versions with capillary





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Stock versions with capillary

Temperature controller (TR)

Part no.	Туре	Control range / limit value range °C	Switching differ- ential %	Capillary mm	Process connection	Probe ø × length mm
60001134	ATH-1	-10 to + 40	3-4	1000		6x185
60001004	ATH-1	0 to +100	3-4	1000	"10"	6x107
60000955	ATH-1	+20 to +150	3-4	1000	Plain cylindrical probe	6 x 88
60001133	ATH-1	+50 to +300	3-4	1000		6x 63
60002113	ATH-1	+20 to +500	5	1000		6x148

Temperature monitor (TW)

(delivery within 3 working days after receipt of order)

(delivery within 3 working days after receipt of order)

Part no.	Туре	Control range / limit value range °C	Switching differential %	Capillary mm	Process connection	Probe ø × length mm
60000482	ATH-2	0 to + 50	3-4	1000		6x185
60000962	ATH-2	0 to +100	3-4	1000		6x107
60001212	ATH-2	0 to +100	3-4	2000		6x107
60000963	ATH-2	+20 to +150	3-4	1000	"10"	6 x 88
60001210	ATH-2	+20 to +150	3-4	2000	Plain cylindrical	6 x 88
60000187	ATH-2	+50 to +200	3-4	1000	probe	6x101
60001038	ATH-2	+50 to +300	3-4	1000		6x 63
60001208	ATH-2	+50 to +300	3-4	2000		6x 63
60002122	ATH-2	+20 to +500	5	1000		6x148

Safety temperature monitor STW (STB)

and safety temperature limiter (STB)

(delivery within 3 working days after receipt of order)

Part no.	Туре	Control range / limit value range °C	Switching differential %	Capillary mm	Process connection	Probe ø × length mm
60002261	ATH-20/r	+ 20 to +500	7	4000	"42" G ³ / ₄ *	200
60001206	ATH-70	+ 30 to +110		2000		6x108
60001205	ATH-70	+ 20 to +150		2000		6x 77
60001525	ATH-70/574	+ 20 to +150		1000	-	6x 77
60001204	ATH-70	+ 50 to +200		2000	"10"	6x 85
60001290	ATH-70/574	+ 50 to +200		1000	Plain cylindrical	6x 85
60001191	ATH-70	+ 50 to +300		2000	probe	6x 55
60001528	ATH-70/574	+ 50 to +300		1000		6x 55
60002088	ATH-70/574	+ 20 to +500		1000		6x127
60002099	ATH-70/574	+ 20 to +500		2000	-	6x127
60002262	ATH-70/574/711	+ 20 to +500		4000	"42" G ³ / ₄ *	200

* Weld-in tube



Data Sheet 603021 Page 10/11

Order details

(Please observe our stock versions and specify the parts no.)

		nostat, ATH series	(Please observe our stock versions and specify the pa
Order code			
603021		Surface-mounted thermostat, ATH series	
		Basic type extensions	
01		ATH-1 Temperature controller (TR)	
02		ATH-2 Temperature monitor (TW)	
20		ATH-20 Safety temperature monitor STW	(STB)
70		ATH-70 Safety temperature limiter (STB)	
-	(3)	Design type	
1		ATH with rigid thermowell	
2		ATH with capillary	
-	(4)	Control ranges / limit value ranges °C	
014		-20 to + 50 (only for TR and TW)	
014		-10 to + 40 (only for TR and TW)	
021		0 to + 50	
025		0 to +100	
041		+20 to + 90	
042		+20 to +120	
043		+20 to +150	
045		+20 to +400	
046		+20 to +500	
052		+30 to +110	
062		+50 to +200	
063		+50 to +250	
064		+50 to +300	
066		+60 to +130	
-	(5)	Switching differential	
00		Without switching differential (-70 STB)	
15		1.5% of the scale range	(only for TR + TW)
20		2 % of the scale range	(only for STW (STB))
30		3 % of the scale range	(only for TR + TW)
50		5 % of the scale range	(only for TR + TW + STW (STB))
60		6 % of the scale range	(only for TR + TW)
70		7 % of the scale range	(only for STW (STB))
90		9 % of the scale range	(only for STW (STB))
-	(6)	Capillary length	
0		ATH without capillary	
1000		1000 mm	
2000		2000 mm	
3000		3000 mm	
4000		4000 mm	
5000		5000 mm	
0000		(Special length, specifications in plain text)	
	(7)	Capillary material	
		Capillary material ATH without capillary	
		Capillary material ATH without capillary Cu (Copper)	

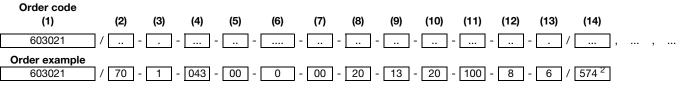




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Order details

 Plain cylindrical probe (only for ATH) Screw-in protection tube Screw-in protection tube screw-in protection tube with intermediate piece Screw-in protection tube with intermediate piece, open Welding sleeve for union nut, conical Welding sleeve for union nut, with intermediate piece, conical Welding sleeve for union nut, with intermediate piece, conical Welding sleeve for union nut, with intermediate piece, conical Welding sleeve for union nut, with intermediate piece, conical Welding sleeve for union nut, with intermediate piece, conical Welding sleeve sconnection 10 External thread (1/2 Material of process connection 10 Cu2n (Brass) <l< th=""><th>rder code</th><th>(8) Process connection (PA)¹</th></l<>	rder code	(8) Process connection (PA) ¹	
30 Screw-in protection tube with intermediate piece, open 31 Screw-in protection tube with intermediate piece, open 42 Weld-in sleeve for union nut, conical 46 Welding sleeve for union nut, with intermediate piece, conical 46 Welding sleeve for union nut, with intermediate piece, conical (9) Thread of process connection 10 00 Without thread (process connection 10) 13 External thread (process connection 10) 14 (10) Material of process connection 10 00 Only with process connection 10 13 External thread (process connection 10) 14 (11) Insertion length "S" (immersion tube length) 00 ATH without protection tube 100 nm 120 120 mm 120 120 mm 120 120 mm 130 300 mm 300 300 mm 300 300 mm 300 300 mm 301 10 mm 131 10 mm 142 (probe diameter) 143 10 mm 144 (probe diameter)	10	Plain cylindrical probe (only for ATH)	
 with intermediate piece 31 Screw-in protection tube with intermediate piece, open 42 Weld-in sleeve for union nut, conical 46 Welding sleeve for union nut with intermediate piece, conical (9) Thread of process connection ¹ 00 Without thread (process connection 10) 13 External thread G 1/2 (10) Material of process connection 10 14 CuZn (Brass) 20 CrNi (Stainless steel 1.4571) (11) Insertion length "S" (immersion tube length) ATH without protection tube 100 mm 120 mm 150 nm 200 200 mm 300 so mm 400 400 mm Special length, specifications in plain text (12) Diameter "D" (immersion tube diameter) ATH without protection tube 8 mm 10 10 mm 120 Diameter "d" (probe diameter) 6 6 mm 8 mm (14) Extra code 2 Wall mount 574 Microswitch with changeover contact, restart look only or STB 	20	Screw-in protection tube	
31 with intermediate piece, open 42 Welding sleeve for union nut, conical 46 Welding sleeve for union nut, with intermediate piece, conical 47 (9) Thread of process connection 1 00 Without thread (process connection 10) 13 External thread G 1/2 (10) Material of process connection 10 00 Only with process connection 10 01 Guzan (Brass) 20 CrNi (Stainless steel 1.4571) (11) Insertion length "S" (immersion tube length) 00 ATH without protection tube 100 00 mm 120 120 mm 150 150 mm 200 200 mm 300 300 mm 400 400 mm	30		
42 conical 46 Welding sleeve for union nut with intermediate piece, conical 00 Without thread (process connection 1) 13 External thread G 1/2 (10) Material of process connection 10 00 Only with process connection 10 13 External thread G 1/2 (10) Material of process connection 10 46 CuZn (Brass) 20 CrNi (Stainless steel 1.4571) (11) Insertion length "S" (immersion tube length) 100 100 mm 120 120 mm 150 150 mm 200 200 mm 300 300 mm 400 400 mm Special length, specifications in plain text (12) Diameter "D" (immersion tube diameter) 00 ATH without protection tube 8 8 mm 10 10 mm 10 10 mm 10 10 mm 110 10 mm 111 Inservice diameter) 112 120 mm 113 10 mm	31	Screw-in protection tube	
40 with intermediate piece, conical (9) Thread of process connection 1 00 Without thread (process connection 10) 13 External thread G 1/2 (10) Material of process connection 00 Only with process connection 10 01 CuZn (Brass) 20 CrNi (Stainless steel 1.4571) (11) Insertion length "S" (immersion tube length) 000 ATH without protection tube 100 100 mm 120 120 mm 150 150 mm 200 200 mm 300 300 mm 400 400 mm Special length, specifications in plain text (12) Diameter "D" (immersion tube diameter) 00 ATH without protection tube 8 8 mm 10 10 mm (13) Diameter "d" (probe diameter) 6 6 mm 8 8 mm 10 10 mm (14) Extra codes 2 00 Without extra code 24 Wall mount	42		
00 Without thread (process connection 10) 13 External thread G 1/2 (10) Material of process connection 10 00 Only with process connection 10 46 CuZn (Brass) 20 CrNi (Stainless steel 1.4571) (11) Insertion length "S" (immersion tube length) 000 ATH without protection tube 100 100 mm 120 120 mm 150 150 mm 200 200 mm 300 300 mm 400 400 mm Special length, specifications in plain text (12) Diameter "D" (immersion tube diameter) 00 ATH without protection tube 8 8 mm 10 10 mm 10 10 mm 11 Insert "d" (probe diameter) 11 10 mm 12 13 Diameter "d" (probe diameter) 13 6 14) Extra codes 2 100 Without extra code 21 Wall mount 32 Yithout with changeover contact, restart lock o	46		
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 248 Wall mount 574 Microswitch with changeover contact, restart lock only for STB 	-		
574 Microswitch with changeover contact, restart lock only for STB			
		Microswitch with changeover contact,	
	701	Case lid made of aluminum diecasting (not with extra code "711")	
702 Snap-action switch contact, gold-plated (only with switching differential 3 %, 5 %, and 7 % and STB)	702	Snap-action switch contact, gold-plated	
711 Switching head mounting with 2 screws through the case bottom section.	711		
764 Mounting flange made of steel sheet, capillary exit on the case spigot	764		



 1 For other connection types and protection tube, see data sheet 606710. 2 List extra codes in sequence, separated by commas.