

Bimetal Thermometer Model TS

FEATURES

- Robust, fully welded stainless steel construction
- Protection upto IP65
- Dry or liquid filled
- Silicone coil dampening provides vibration dampening and improves response time

TYPICAL USES

- Water Treatment Industry
- HVAC Industry
- Maritime Industry
- Automotive Industry
- Manufacturing Industry
- Plastics and Rubber Industry
- Mechanical Engineering Industry
- Textile Industry
- Coatings Industry
- Power generation



TECHNCAL SPECIFICATIONS

Dial Size: Ø in

mm 52, 65, 80, 100 lnch 2", 2 1/2", 3",4"

Connection Location: Lower or Back
Stem Diameter 6 mm, 8 mm and 9 mm

Stem Length: 60 ... 1000 mm

MECHANICAL SPECIFICATION

Process Connection: G 1/2 A Male

1/2 NPT Male

others please see in the coding table

Accuracy For range $\leq +400^{\circ}\text{C} \pm 1\%$

For range > +400°C $\pm 2\%$

Max. Overtemperature limit

For Range ≤400°C 20% of Span

IIIIIIL

For Range > 400°C Peak Overload 600°C Continus Overload 520°C

KEY BENEFITS:

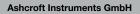
- High reliability and durability
- Perfectly designed for our HVAC thermowells

MATERIALS Process Connection Stainless steel 303 (1.4305) Stainless steel 316L (1.4404) or 304L (1.4306) Stem: For Dial Size 52 mm and 65 mm: Case/Ring: Head in rolled Stainless steel 303 (1.4305) For Dial Size 80 mm, 100 mm: Head in galvanized Steel, bezel in neutral colored anodized aluminium Window: Mineral glass, Acrylic glass Dial: Aluminum, black marked Pointer: Aluminum, black BUNA-N (NBR) Gaskets/Sealing:



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	RING CODE	EXAMPLE:	TS	Н	=	052	Α	L	B0704	X
Model										
TS	Bimetal Thermometer									
Connection	Location:									
Н	Co-axial back [inadmissible for process connection A and	N]								
V	Vertical Lower [inadmissible for mounting F; inadmissible	for process connection I_ and L_]								
Connection	size:									
052	dial size 52 mm									
065	dial size 65 mm									
080	dial size 80 mm									
100	dial size 100 mm									
Mounting										
Α	with unthreaded shoulder [inadmissible for pro	ocess connection G2, G3, G4, G6, N2 and N4; inadmi	ssible for conr	ection style NX	ı					
F	with back mounting flange [inadmissible for p	process connection { A_, G2, G3, G4, G6, N_ N2 and I	N4; inadmissib	le for connectio	n style AU, AX	and NX]				
S	with fixed threaded connection [inadmiss	ible for process connection} A_, I_, L_ and N_; inadm	issible for con	nection style AU	and AX]					
Filling										
-	Without filling									
L	Field with Silicone [inadmissible for process connection	on) A_, I_, L_ and N_; inadmissible for connection style	e AU and AX]							
Process Co	nnection									
Α	Ø 15 Aluminium [inadmissible for connection style NX]									
I	Ø 15, AISI 303 / 1.4305 [inadmissible for connect	ction style NX]								
L	Ø 15, galvanized brass									
1	Ø 15, AISI [inadmissible for stem diameter and material 8I, 8X	and 9X: inadmissible for connection style NXI								
N	Ø 15, Nickel-plated Aluminium [inadmissi									
G2	G 1/4, AISI 303 / 1.4305 [inadmissible for connecti									
G4	G ½, AISI 303 / 1.4305 [inadmissible for connecti									
G6	G 3/4, AISI 303 /1.4305 [inadmissible for connecti									
N2	1/4 NPT, AISI 303 / 1.4305 [inadmissible for con									
N4	1/2 NPT, AISI 303 /1.4305 [total stem length L {IL} = min. 70 mm; inadmissible for connection style AU, AX and NX]									
Temperatu		Let = Illini. 70 Illini, illadinissible for confection style A	o, AX and IVA							
B0704	-70 +40°C									
B0404	-40 +40°C									
B0307	-30 +70°C									
B0312	-30 +120°C [inadmissible for measuring system C]									
B0317	-30 +120 C [inadmissible for measuring system C]									
	-30 +170 C [inadmissible for measuring system C] -20 +40°C									
B0204										
C0004	0 +40°C									
C0006	0 +60°C									
C0012	0 +120°C									
C0016	0 +160°C [inadmissible for measuring system C]									
C0020	0 +200°C [inadmissible for measuring system C]									
C0025	0 +250°C [inadmissible for measuring system C]									
C0032	$0 \ \dots + 320 ^{\circ} C$ [inadmissible for measuring system C; inadmis									
C0040	$0\\ +400^{\circ}C$ [inadmissible for measuring system C; inadmissible for measuring									
C0050	0 +500°C [total stem length L = min. 100 mm; inadmissible for measuring system C; inadmissible for open measuring system 2]									
C0060	0 +600°C process wetted part ma	ax. 550°C								
	0 +600°C process wetted part ma mperature ranges on request	ix. 550°C								



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ORDE	RING CODE	EXAMPLE:	S	61	60	AA	-	G4	60	XNH
Mesuring	systems									
S	Standard									
С	Short									
-										
Stem dia	meter & Material:									
6I	Ø 6 mm, AISI 304L / 1.4306 [total stem length Le									
6X	Ø 6 mm, AISI 316L / 1.4404 [total stem length L=	max. 650 mm; length L1 below adapter= max. 62	0 mm]							
81	Ø 8 mm, AISI 304L / 1.4306									
8X	Ø 8 mm, AISI 316L / 1.4404									
9X	Ø 9 mm, AISI 316L / 1.4404									
Total sten	n length L in mm:									
XXX	60 1000 mm stem length in 1 mm s	teps								
Windows										
AA	Acrylic with index pointer									
AM	Mineral with index pointer									
VA	Acrylic glass									
VM	Mineral glass									
Filling										
-	Without adapter [inadmissible for adapter connection size 6									
AU	AMU swiveling and sliding cap connec									
AX	AMX swiveling and sliding threaded co									
NX	AMX swiveling and sliding threaded co	onnection [inadmissible for adapter conn	ection size,	M5,M6,M8,M9,	N6,NX; inadmis	sible for length L	1 below]			
	connection size									
G4	G ½, AISI 303 / 1.4305									
G6	G ¾, AISI 303 /1.4305									
M8	M24x1,5, AISI 303									
M9	M27x2, AISI 303									
N4	1/2 NPT, AISI 303 /1.4305 [length L1 below adapter	= min. 70 mm]]								
N6	3/4 NPT, AISI 303 [length L1 below adapter = min. 70 mm]									
NX	1/2 NPT, AISI 316L [length L1 below adapter = min. 70 mm]									
_	l below adapter size									
	0 mm stem length in 1 mm steps									
Option m	easuring system									
-	Without									
2	Silicone grease for vibrations C2									

Ashcroft Instruments GmbH

Without

3 points

3







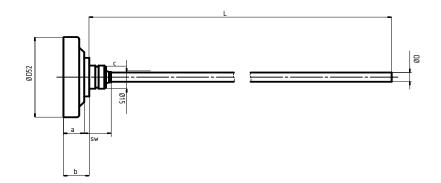
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DIMENSIONS IN MM

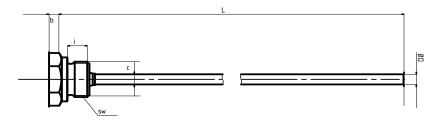
For reference only, ask us for specific dimensional drawings

HVAC BIMETAL TS

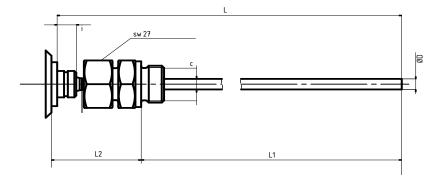
For mount	ing with unthrea	ded shoulder	(A) and with fix	xed threaded c	onnection (S)
ØD	52	65	77	100	
а	9	10	12	12	
b	12	13	14	14	
С	G1/4	G3/8	G1/2	G3/4	1/4 NPT
i	10	10	12	12	17
sw	17	22	27	32	17



TS=H=A With unthreaded Shoulder



TS=H=S With fixed threaded connection



TS=H with swivelling & sliding threaded connection





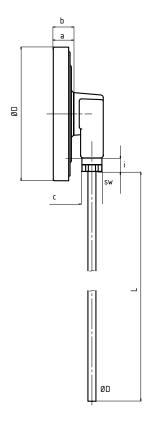
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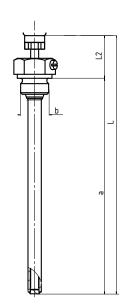
DIMENSIONS IN MM

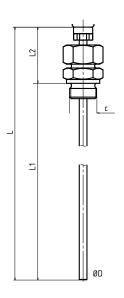
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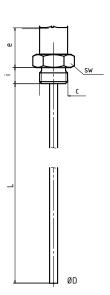
For mou	ınting with unth	readed should	er (A) and with t	fixed threaded o	onnections
ØD	52	65	77	100	
a	9	10	12	12	
b	12	13	14	14	
е	15	15	15	29	
С	G1/4	G3/8	G1/2	G3/4	1/4 NPT
i	10	10	12	12	17
sw	17	22	27	32	17

TS=V	TS=V=A	TS=V	TS=V
with unthreaded shoulder	with thermowell	with thermowell	with swivelling sliding Threaded connection







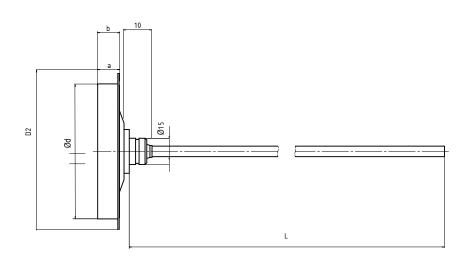


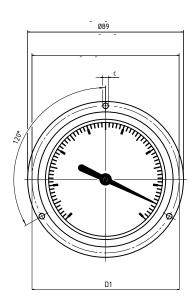


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For mouting with back mouting flange						
ØD	66	77	100			
D1	74	84	111			
D2	80	89	120			
а	11	12	13			
b	14	15	15			
ØC	3.2	3.2	4.3			

TS=H=F with mouting flange





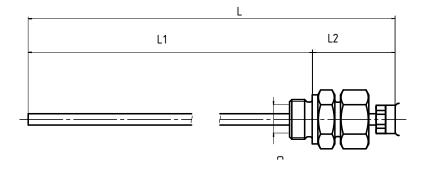
 $\underline{ashcroft.eu} \hspace{0.1cm} \rule{0.1cm}{3.2cm} \hspace{0.1cm} \underline{sales@ashcroft.com}$





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Thermometer vertical	Fitting and connections supplid as accessories Minimum Length L2 in mm					
Тур	+DAE	+AMX	+AMU			
TS=V=052=A	15	37	30			
TS=V=065=A	15	37	30			
TS=V080=A	25	37	30			
TS=V100=A	32	44	37			



The fixing system descripted on sheet TA1 and supplied as accessories

(e.g the connection AMX) require that in all cases the length L1, and also the lengths L2 and L. For vertical (bottom-connected) thermometers with unthreaded shoulder TSVA+.. The length L1 is in fact the useful length for temperature measurement.

For vertical thermometers TSV A+ according to the head diameter and to the fixing system. The length L2 corresponds in each case to a minimum length which allows the connection to be screwed up without the spanner fouling the head. See table opposite for dimensions to this effect.

When length L2 exceeds 100 mm, we recommend 8 or 9 mm diameter stems (wall thickness 1.4 mm or 1.9 mm respectively) to eliminate any risks of occidental bending.

