TEL-TRU® TEMPERATURE SOLUTIONS

SANITARY BIMETAL THERMOMETERS

VERSATILE APPLICATIONS IN HYGIENIC INDUSTRIES

This heavy duty thermometer meets 3-A Sanitary Standard 74-07 requirements for sensors and sensor fittings and connectors used in milk and milk products. This design extends seamlessly to broader hygenic industries including:

Food Processing	**Brewing**	**Canning and Jarring**
Pharmacetical	**Bottling**	**Maple Syrup**

Additionally, no thermowell is required because a Tri-Clamp® sanitary fitting is integral to the thermometer, reducing installation and instrument costs.

➤ MODEL CODES:

Back Connected	SGT-300R	3" diameter head
	SGT-400R	4" diameter head
	SGT-500R	5" diameter head
Bottom Connected	SBC-350R	3" diameter head
	SBC-450R	4" diameter head
	SBC-550R	5" diameter head
Adjustable Angle	SAA-375R	3" diameter head
	SAA-475R	4" diameter head
	SAA-575R	5" diameter head

➤ SPECIFICATIONS:

Stem Lengths:	1⅝, 2½, 2¾, 4½, 7½, 10½, 13½, 16½, 22½"
Stem Diameter:	.375" standard
	.250" optional
Connection:	316SS Tri-Clamp fitting sizes ¾*, 1½**, 2, 3, and 4"
External Reset:	Easy to calibrate by inserting a hex key into reset opening
Material:	316SS wetted parts, 304SS non-contact parts
Hermetic seal:	Per ASME B40.3 dustproof and leakproof
Dial:	True Anti-Parallax dial, easy-to-read from any angle, minimizes reading errors Anodized aluminum with large black numbers and graduations
Lens:	Glass, safety glass, acrylic, or polycarbonate
Bimetal Coil:	Helix coil is silicone coated on ranges below 500°F for vibration dampening and to maximize heat transfer and response time
Accuracy:	±1% full span per ASME B40.3 Grade A
Over Temperature Limits:	Up to 250°F 100%; 250°F to 550°F, 50%; 550°F to 1000°F, continuous use up to 800°F, intermittent use over 800°F
Surface Finish:	All wetted parts, max. 32 micro-inches (.80 microns) on stem, weld radius, and underside of flange, per 3-A Sanitary Standard 74-07 requirements
Pressure Limit:	Up to minimum 250psi

Tri-Clamp® is a registered trademark of Tri-Clover, Inc.
** Used on both ½ and ¾" lines.*
*** Used on both 1 and 1½" lines.*

SANITARY BIMETAL THERMOMETERS

➤ HOW TO ORDER

Example: SGT300R, 2.5" Stem, 0/250°F, .375 316SS stem diameter, Glass, 2" Tri-Clamp fitting

3410	02	67	B6N	AAAA	- 20
XXXX	XX	XX	XXX	XXXX	- XX

MODEL

3410	SGT300R
4810	SGT400R
3810	SGT500R
3910	SBC350R
4610	SBC450R
4010	SBC550R
4110	SAA375R
4710	SAA475R
4210	SAA575R

STEM LENGTH ("U")

IC	1.625"
02	2.5"
BA	2.75"
CH	4.5"
AT	7.5"
DC	10.5"
EC	13.5"
FJ	16.5"
JQ	22.5"

Other stem lengths available upon request.

RANGE

Fahrenheit			Celsius			Dual		
Code	°/Div.	Temp.	Code	°/Div.	Temp.	Code	°/Div.	Temp.
56	2°	0/220F	**86**	1°	-20/120C	**04**	0/220F	-10/100C
67	2°	0/250F	**74**	1°	-10/110C	**14**	0/250F	-20/120C
59	2°	20/240F	**76**	1°	0/100C	**05**	20/240F	-10/110C
62	2°	50/300F	**77**	1°	0/150C	**07**	50/300F	10/150C

Other ranges available with 2½" stems and longer.

SANITARY SIZE FITTING

05	¾" Tri-Clamp (316SS)*
10	1½" Tri-Clamp (316SS)**
20	2" Tri-Clamp (316SS)
25	2½" Tri-Clamp (316SS)
30	3" Tri-Clamp (316SS)
40	4" Tri-Clamp (316SS)

WINDOW

AAAA	Glass
CAAA	Safety Glass
DAAA	Acrylic
EAAA	Polycarbonate

STEM DIAMETER/ MATERIAL

B6L	.250 316SS
B6N	.375 316SS

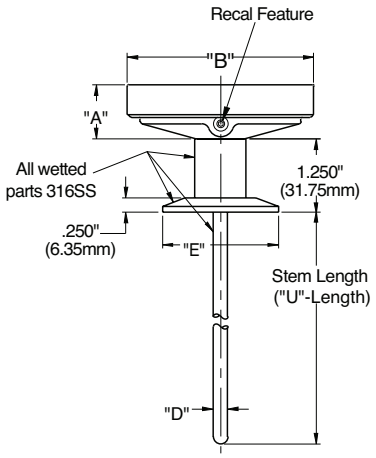
➤ STANDARD MODELS and SPECIFICATIONS:

Model	"A"	"B"	"C"
SGT300R	.890" (22.61mm)	3.187" (80.95mm)	-
SGT400R	.890" (22.61mm)	4.115" (104.50mm)	-
SGT500R	1.328" (33.73mm)	5.040" (128.02mm)	-
SBC350R	1.187" (30.15mm)	3.187" (80.95mm)	1.875" (47.63mm)
SBC450R	1.187" (30.15mm)	4.115" (104.50mm)	2.625" (66.68mm)
SBC550R	1.625" (41.28mm)	5.040" (128.02mm)	2.625" (66.68mm)
SAA375R	2.430" (61.72mm)	3.187" (80.95mm)	-
SAA475R	2.430" (61.72mm)	4.115" (104.50mm)	-
SAA575R	2.660" (67.56mm)	5.040" (128.02mm)	-

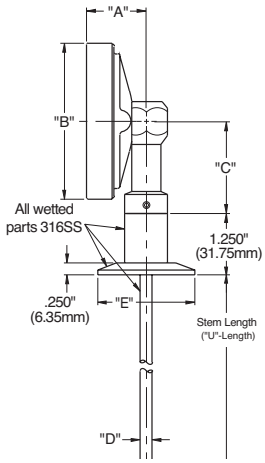
Tri-Clamp Fitting	"E"
* ¾"	.984" (25.00mm)
** 1½"	1.984" (50.40mm)
2"	2.516" (63.90mm)
2½"	3.047" (77.40mm)
3"	3.579" (90.90mm)
4"	4.682" (118.90mm)

** Used on both ½ and ¾" lines.*
*** Used on both 1 and 1½" lines.*

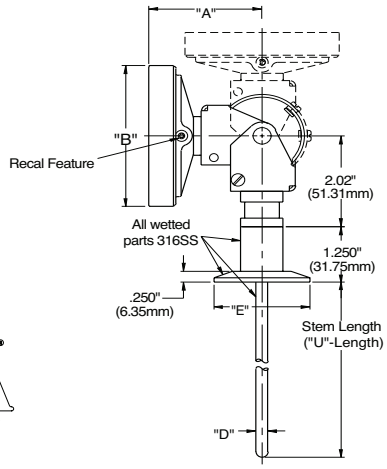
➤ SGT MODELS:



➤ SBC MODELS:



➤ SAA MODELS:



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TEL-TRU® TEMPERATURE SOLUTIONS

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