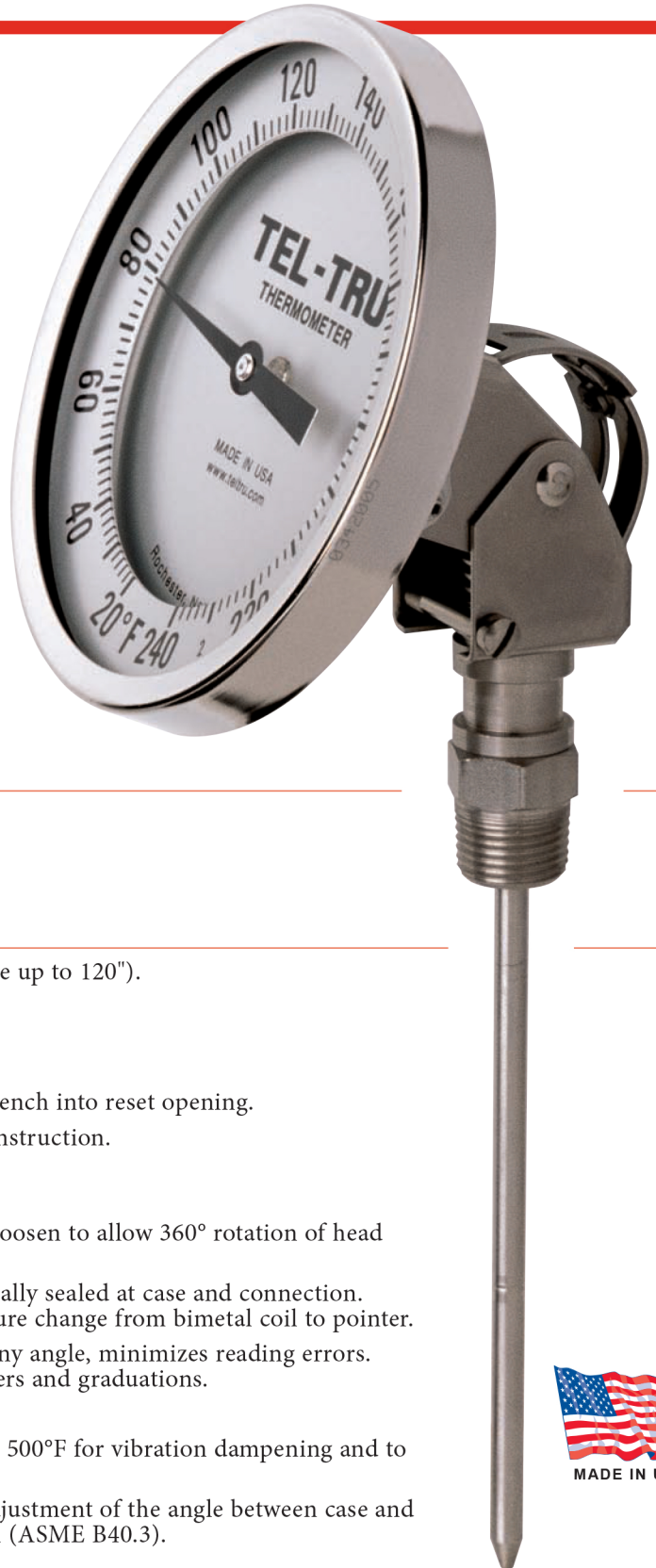
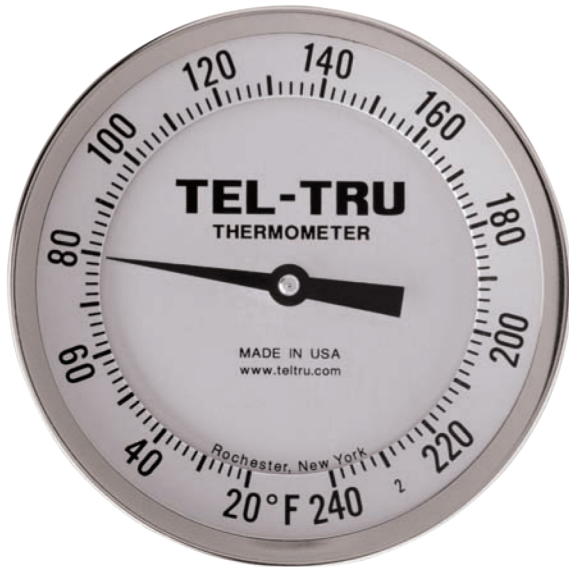


3", 4" and 5" Adjustable Angle Industrial Thermometers

- Maximum utility for installation
- Head can be rotated 360°
- Stem positioning over 180°

Heavy Duty design, with versatile case and stem that can be adjusted to almost any angle for easy viewing. Preferred by the process, offshore, power, pharmaceutical and chemical industries.



► MODEL CODES:

AA-375R	3" diameter head with calibration feature
AA-475R	4" diameter head with calibration feature
AA-575R	5" diameter head with calibration feature

► SPECIFICATIONS:

Stem Lengths:	2½", 4", 6", 9", 12", 15", 18" and 24" (available up to 120").
Stem Diameter:	.250" standard up to 42" stem. .375" standard over 42" stem.
Connection:	½" NPT.
External Reset:	Easy to calibrate by inserting 1/16" Allen wrench into reset opening.
Construction:	304 stainless steel external parts. Welded construction. Corrosion resistant to most chemicals.
Hermetic seal:	Per ASME B40.3 dustproof and leakproof.
Harness:	All stainless steel brackets with screws that loosen to allow 360° rotation of head and 180° adjustment of stem position.
Bellows:	Heavy-duty flexible stainless steel. Hermetically sealed at case and connection. Protects mechanism that transfers temperature change from bimetal coil to pointer.
Dial:	True Anti-Parallax dial, easy-to-read from any angle, minimizes reading errors. Anodized aluminum with large black numbers and graduations.
Lens:	Glass.
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. Adjustment of the angle between case and stem may affect accuracy up to 0.5% of span (ASME B40.3).
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.





Tel-Tru® Manufacturing Company

STANDARD RANGES:

Fahrenheit	°/Div.	Celsius	°/Div.	Dual Fahrenheit	Celsius
-100/100°	2°	-75/175°	5°	-100/100	-75/40
-50/120°	2°	-70/70°	1°	-40/160	-40/70
-40/160°	2°	-50/100°	1°	-0/140	-18/60
0/140°	1°	-50/25°	1°	0/180	-18/82
0/180°	2°	-50/50°	1°	0/220	-10/100
0/200°	2°	-40/70°	1°	0/250	-20/120
0/220°	2°	-20/120°	1°	20/240	-10/110
0/250°	2°	-10/110°	1°	25/125	-5/50
0/300°	5°	0/50°	1/2°	50/300	10/150
0/500°	10°	0/60°	1°	50/400	0/200
20/240°	2°	0/80°	1/2°	50/500	10/260
25/125°	1°	0/100°	1°	150/750	50/400
50/250°	2°	0/150°	1°	* 200/1000	* 100/550
50/300°	2°	0/200°	2°		
50/400°	5°	0/250°	2°		
50/500°	5°	0/300°	5°		
50/550°	5°	0/400°	5°		
100/800°	10°	0/450°	5°		
150/750°	10°	100/400°	5°		
* 200/1000°	10°	* 100/550°	5°		

(Additional Ranges Available – Consult factory)

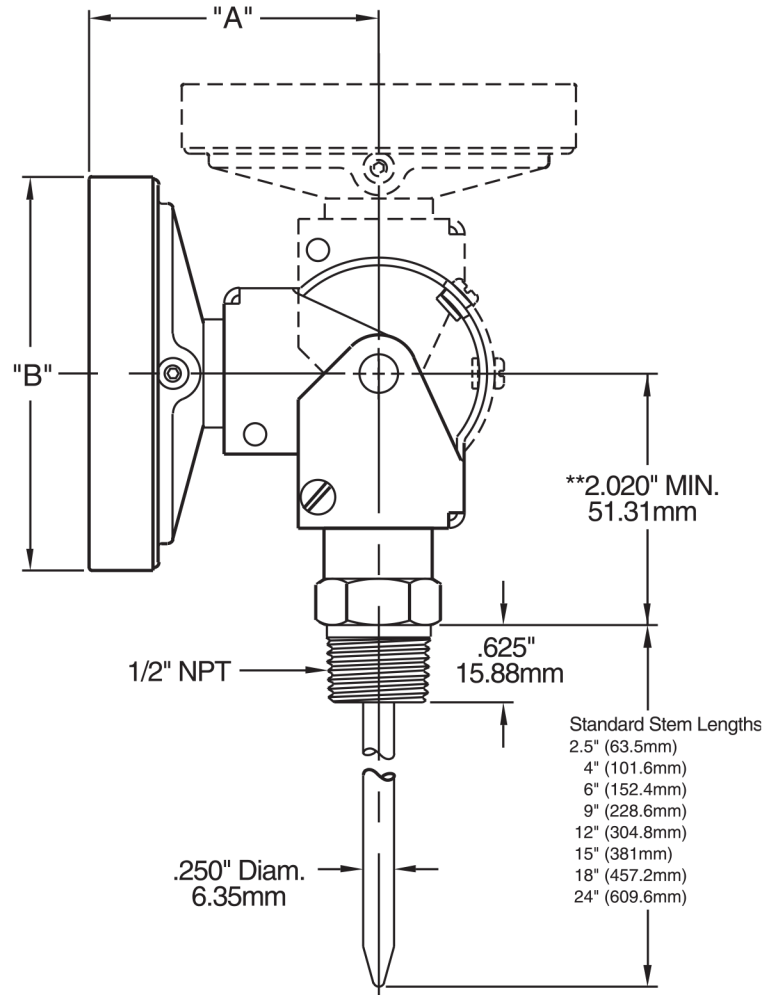
* Thermometers with temperature ranges 200/1000°F and 100/550°C are NOT RECOMMENDED FOR CONTINUOUS USE ABOVE 800°F/425°C (FOR INTERMITTENT USE ONLY).

OPTIONS:

- Union connection or other connection types and sizes.
- Silicone filled.
- Other lenses are acrylic, polycarbonate, shatterproof glass or tempered glass.
- Other stem diameters .236" (6mm), .315" (8mm), .375" (9.52mm).
- 316SS wetted parts.
- Other configuration combinations available upon request.

Estimated Shipping Weights		
MODEL	DRY	SILICONE FILLED
AA-375R	. 1lb.	.1lb. 3oz.
AA-475R	. 1lb. 8oz.	.1lb. 14oz.
AA-575R	. 1lb. 12oz.	.2lb. 6oz.

AA-375R, AA-475R AND AA-575R



MODEL	"A"	"B"
AA-375R	2.430" (61.72mm)	3.187" (80.95mm)
AA-475R	2.430" (61.72mm)	4.115" (104.50mm)
AA-575R, UT575	2.660" (67.56mm)	5.040" (128.02mm)

** Contact factory if specific dimension is required for OEM applications.

FOR HOW TO ORDER, SEE PAGE 6

IMPORTANT NOTES:

- 1) Thermowells are recommended for pressure, corrosive fluid or high velocity applications.
- 2) ASME B40.3— Bimetal thermometers manufactured by Tel-Tru and offered in this brochure are designed to meet or exceed this Standard issued by the American Society of Mechanical Engineers.

How to Order

➤ HOW TO ORDER:

EXAMPLE

MODEL CODE	STEM LENGTH	RANGE
3410	04	59

- 1) Model Code
- 2) Connection Size and Thread Type
- 3) Stem Length
- 4) Temperature Range
- 5) State Options and Accessories When Required – See Standard Features and Options Table

➤ MODEL CODES, CONNECTIONS SIZE AND THREAD TYPE

Dial Size	.250" Diameter Stems– Industrial Model	NPT	Lens	Con. Loc.	CODE
2" (51mm)	LN250	1/4"	Glass	Back	3110
	LN250R	1/4"	Glass	Back	3210
3" (80mm)	GT300	1/2"	Glass	Back	3310
	GT300R	1/2"	Glass	Back	3410
	MX325R	1/2"	Glass	Back	3610
	MM325R	1/2"	Glass	Back	5010
	BC350R	1/2"	Glass	Bottom	3910
	AA375R	1/2"	Glass	Adjustable	4110
4" (100mm)	GT400	1/2"	Glass	Back	4510
	GT400R	1/2"	Glass	Back	4810
	BC450R	1/2"	Glass	Bottom	4610
	AA475R	1/2"	Glass	Adjustable	4710
5" (128mm)	GT500	1/2"	Glass	Back	3710
	GT500R	1/2"	Glass	Back	3810
	MX525R	1/2"	Glass	Back	5310
	MM525R	1/2"	Glass	Back	5410
	BC550R	1/2"	Glass	Bottom	4010
	AA575R	1/2"	Glass	Adjustable	4210

Dial Size	.150" Diameter Stems– Industrial Model	NPT	Lens	Con. Loc.	CODE
1 3/4" (44mm)	GT200	1/8"	Glass	Back	1910
	GT200	1/4"	Glass	Back	2010
2" (51mm)	GT225	1/8"	Glass	Back	4910
	GT225	1/4"	Glass	Back	491A

Dial Size	.150" Diameter Stems– Pocket/Laboratory Model	NPT	Lens	Con. Loc.	CODE
1" (25mm)	PT50R	N/A	Plycrb.	Back	1210
	PT50	N/A	Plycrb.	Back	1110
	AD10R	N/A	Plycrb.	Back	1219
1 3/8" (36mm)	AD44R	N/A	Plycrb.	Back	4419
1 3/4" (44mm)	MT39	N/A	Glass	Back	1310
	MT39R	N/A	Glass	Back	1410
	GT100R	N/A	Glass	Back	1610
2" (51mm)	LT225R	N/A	Glass	Back	2310
	LT225	N/A	Glass	Back	2210
3" (80mm)	LT330R	N/A	Plycrb.	Back	2819

➤ STEM LENGTHS

Stem Lengths	Code
-2 1/2" (63mm)	02
4" (100mm)	04
* 5" (128mm)	05
6" (152mm)	06
* 8" (203mm)	08
9" (229mm)	09
12" (305mm)	12
15" (381mm)	15
18" (457mm)	18
24" (610mm)	24

* Laboratory and test thermometers .150" only

➤ STANDARD TEMPERATURE RANGES

Fahrenheit	Code
-100/100	51
-50/120	52
-40/160	53
0/140	54
0/180	55
0/200	50
0/220	56
0/250	67
0/300	57
0/500	58
20/240	59
25/125	60
50/250	61
50/300	62
50/400	63
50/500	64
50/550	68
100/800	44
150/750	65
200/1000	66

Celsius	Code
-75/175	87
-70/70	EA
-50/100	71
-50/25	72
-50/50	73
-40/70	84
-20/120	86
-10/110	74
0/50	75
0/60	95
0/80	EI
0/100	76
0/150	77
0/200	78
0/250	79
0/300	80
0/400	81
0/450	90
100/400	82
100/550	83

DUAL RANGES

Fahrenheit	Celsius	Code
-100/100	-75/40	01
-40/160	-40/70	02
0/140	-18/60	13
0/180	-18/82	03
0/220	-10/100	04
0/250	-20/120	14
20/240	-10/110	05
25/125	0/50	06
50/300	10/150	07
50/400	0/200	08
50/500	0/250	09
150/750	50/400	10
200/1000	100/550	11

Availability of temperature ranges varies by model. Dial size must be 1-3/8" or larger.



Tel-Tru® Manufacturing Company

STANDARD FEATURES AND AVAILABLE OPTIONS

Head Dia. Model	Laboratory and Testing Thermometers									Industrial		Industrial Thermometers						
	1"			1 3/8"	1 3/4"		2"		3"	1 3/4"	2"	2"	3", 4" and 5"					
	PT50 (1110)	PT50R (1210)	AD10R (1219)	AD44R (4419)	GT100 (1510)	GT100R (1610)	LT225 (2210)	LT225R (2310)	LT330R (2819)	GT200	GT225 (4910)	LN250 (3110) LN250R (3210)	AAR (3" 4110) (4" 4710) (5" 4210)	BCR (3" 3910) (4" 4610) (5" 4210)	GT (3" 3310) (4" 4510) (5" 3710)	GTR (3" 3410) (4" 4810) (5" 3810)	MMR (3" 5010) (5" 5410)	MXR (3" 3610) (5" 5310)
Lens	Glass	†	†		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Glass, Shatterproof												○	○	○	○		
	Glass, Tempered				○	○	○	○		○	○	○	○	○	○	○		
	Plastic, Acrylic						○	○			○	○	○	○	○	○		○
	Plastic, Polycarbonate	†	†	✓	✓	○	○	○	○	✓	○	○	○	○	○	○		
Stem Diameters	.140"	○	○	○	○	○	○	○	○	○	○							
	.150"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
	.187"						○	○	○									
	.236" (6mm)												○	○	○	○	○	○
	.250"											✓	✓	✓	✓	✓	✓	✓
	.315" (8mm)												○	○	○	○	○	○
	.375"											○	○	○	○	○	○	○
Connections	Bushing, Plain	✓			✓		✓					○	○	○	○	○	○	○
	Bushing, 1/4" - 20	○			○		○											
	Bushing, 1/4" - 28	○			○		○											
	Bushing, 3/8" - 24	○			○													
	Nut, Recalibrating		✓	✓	✓		✓		✓									
	Nut, 1/16" NPT	○								○								
	Nut, 1/8" NPT	○								✓(1910)	○	○						
	Nut, 1/4" NPT	○								✓(2010)	✓	✓	○	○	○	○	○	○
	Nut, 1/4" BSPT	○								○		○(3210)	○	○	○	○	○	○
	Nut, 3/8" NPT	○								✓(2110)	○	○	○	○	○	○	○	○
	Nut, 3/8" BSPT												○	○	○	○	○	○
	Nut, 1/2" NPT	○								○	○	○	✓	✓	✓	✓	✓	✓
	Nut, 1/2" BSPT											○(3110)	○	○	○	○	○	○
	Union, 1/2" NPT												○	○	○	○	○	○
	Other Connections	Other connection fittings available upon request.																
Options	Silicone Filled						○	○				○	○	○	○	○		
	316SS, Wetted Parts												○	○	○	○	○	○
	316SS, All												○	○	○	○		
	Tagging	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Custom Dial Imprinting	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Stem Lengths	Intermediate lengths available upon request. 18" Maximum											Intermediate lengths available upon request. 120" Maximum					

✓ Standard configuration.

† Polycarbonate lens standard up to 300°F (150°C), Glass lens standard over 300°F (150°C). Do Not subject Polycarbonate lens to temperatures over 270°F (130°C).

○ Available options.