



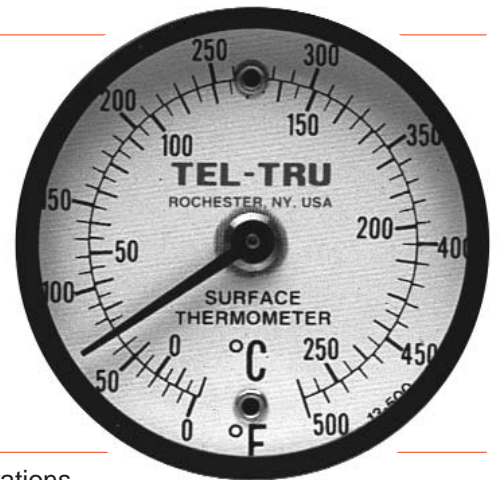
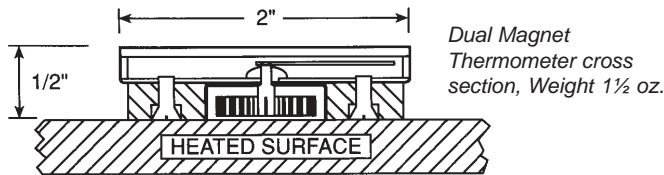
# TEL-TRU MANUFACTURING COMPANY SURFACE THERMOMETERS

Tel-Tru Surface Thermometers are 2" dial compact thermometers that sense surface temperature. Exposed bimetal coil sensors provide a quick and accurate surface temperature reading.

- 2" Diameter
- Accuracy  $\pm 2\%$  of full scale range
- Mounting styles: Dual Magnet, Tab, Spring Held, or Clip-On

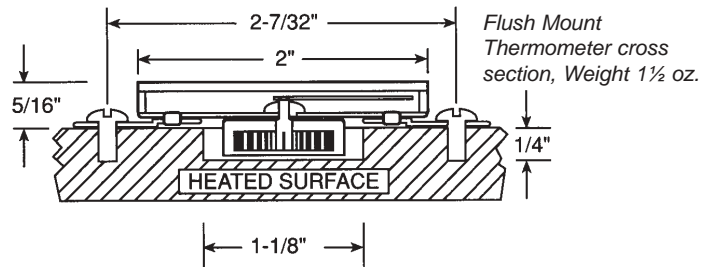
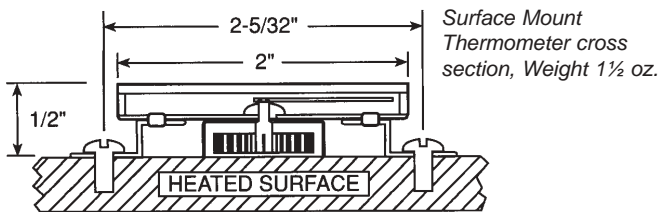
## ➤ DUAL MAGNET THERMOMETERS

Designed for horizontal or ferrous non-horizontal surfaces. Features two Alnico magnets that act as a base and hold the thermometer in place. Single or dual reset hands are options.



## ➤ TAB THERMOMETERS

Designed with two tabs with pre-drilled holes for screws. Two mounting configurations available, including Surface or Flush. Single or dual reset hands are optional.



Dual Temperature Range				Model Number		
Range °F	Div.	Range °C	Div.	Dual Magnet	Tab Surface	Tab Flush
0/250	5°	-20/120	2°	DM-012-250	TB-112-250	TB-212-250
0/500	10°	-20/250	5°	DM-013-500	TB-113-500	TB-213-500
50/750	10°	10/400	10°	DM-014-750	TB-114-750	TB-214-750
0/150	2°	-20/65	1°	DM-015-150	TB-115-150	TB-215-150
-100/160	5°	-70/70	2°	DM-030-160	TB-130-160	TB-230-160



MADE IN USA

*World-Class Thermometers* Since 1916

[www.teltru.com](http://www.teltru.com)

# SURFACE THERMOMETERS

## ➤ SPRING HELD PIPE THERMOMETERS

Spring Held Pipe thermometers are designed to measure surface temperatures of pipes, cylinders, spindles, etc. that have outer diameters of 3/4" or more. Each thermometer comes complete with a spring kit (one each of 3/4", 2", and 4" spring lengths) that can be used separately or connected together for larger diameter pipes.

*Spring Held Pipe Thermometer, Weight 1 1/2 oz.*



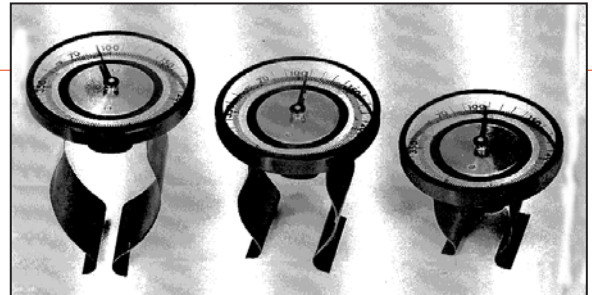
Fahrenheit			Celcius		
Range °F	Div.	Model Number	Range °C	Div.	Model Number
0/150	2°	SH-F83-150	-40/120	2°	SH-C86-120
-50/250	2°	SH-F86-250	20/180	2°	SH-C87-180
70/370	2°	SH-F87-370	20/260	2°	SH-C88-260
70/500	5°	SH-F88-500			

## ➤ CLIP-ON PIPE THERMOMETERS

Clip-On Pipe thermometers are designed for clipping on to pipes or tubes 3/4" to 2-3/8" in diameter. Three different clip sizes include:

- Small clip (3/4" to 7/8" pipe diameter)
- Medium clip (7/8" to 1 5/8" pipe diameter)
- Large clip (1 5/8" to 2 3/8" pipe diameter)

*Clip-On Pipe Thermometer, Weight 1 oz.*

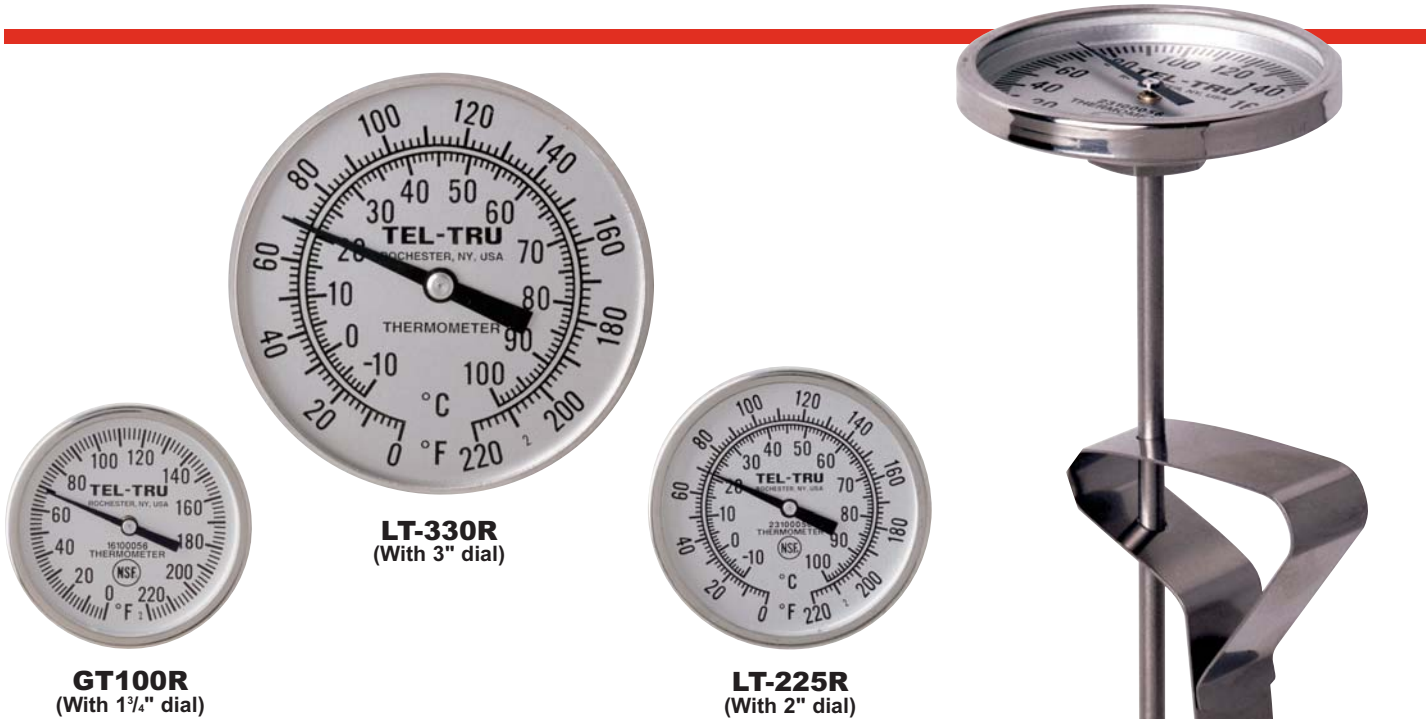


Fahrenheit			Celcius			Pipe Diameters
Range °F	Div.	Model Number	Range °C	Div.	Model Number	
-50/250	2°	CS-F84-250	-40/120	2°	CS-C84-120	(Small Clip)
70/370	2°	CS-F85-370	20/180	2°	CS-C85-185	3/4" to 7/8" (19.1 to 22.2mm)
-50/250	2°	CM-F84-250	-40/120	2°	CM-C84-120	(Medium Clip)
70/370	2°	CM-F85-370	20/180	2°	CM-C85-185	7/8" to 1 5/8" (22.2 to 41.3mm)
-50/250	2°	CL-F84-250	-40/120	2°	CL-C84-120	(Large Clip)
70/370	2°	CL-F85-370	20/180	2°	CL-C85-185	1 5/8" to 2 3/8" (41.3 to 60.3mm)



# 1<sup>3</sup>/<sub>4</sub>", 2" and 3" Laboratory Testing and General Purpose Thermometers

These models are used for general-purpose testing applications such as laboratory, food, concrete, asphalt, soil and photography and OEM equipment.



► **MODEL CODES:**

- GT-100 and MT-39      1<sup>3</sup>/<sub>4</sub>" diameter head
- GT-100R and MT-39R    1<sup>3</sup>/<sub>4</sub>" diameter head with calibration feature
- LT-225                    2" diameter head
- LT-225R and BT-275R    2" diameter head with calibration feature
- LT-330R                 3" diameter head with calibration feature

► **SPECIFICATIONS:**

- Stem Lengths:            5", 8", 12" and 18".
- Stem Diameter:            .150" standard up to 18" stem.
- Connection:              GT-100, MT-39 and LT-225 plain bushing is standard.  
GT-100R, MT-39R, LT225R, BT-275R and LT-330R recalibrating nut is standard.
- External Reset:            GT-100R, MT-39R, LT-225R, BT-275R and LT-330R friction nut design for easy calibration.
- Construction:             304 stainless steel external parts. Welded construction. Corrosion resistant to most chemicals.
- Hermetic seal:            Per ASME B40.3 dustproof and leakproof.
- Dial:                        Anodized aluminum with large black numbers and graduations.
- Lens:                        GT, MT, and LT models glass is standard.  
LT-330R polycarbonate lens is standard.
- 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.
- Adjustable Pan Clip:      Standard on 5" and 8" GT-100R, LT-225R and LT-330R (for tank and tray mounting).





**Tel-Tru Manufacturing Company**

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Phone: 585.232.1440 • 800.232.5335 • Fax: 585.232.3857 • E-mail: info@teltru.com • Web: www.teltru.com

➤ **STANDARD RANGES 1 3/4" AND 2" MODELS:**

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

➤ **DUAL TEMPERATURE RANGES MODEL LT-330R:**

Fahrenheit		%/Div.	Celsius		%/Div.	Est. Shipping Weights DRY	
						MODEL	
-100/100	2°	-75/40	2°			MT-39 and MT-39R . . . . 4 oz.	
-40/160	2°	-40/70	1°			GT-100 and GT-100R . . . 3 oz.	
0/220	2°	-10/100	1°			LT-225 and LT-225R . . . 4 oz.	
25/125	1°	0/50	1/2°			LT-330R and BT-275R . 8 oz.	
50/300	2°	10/150	2°				
50/500	5°	0/250	2°				
150/750	10°	50/400	5°				
* 200/1000	10°	* 100/550	5°				

**Notes for above tables:**

(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:**

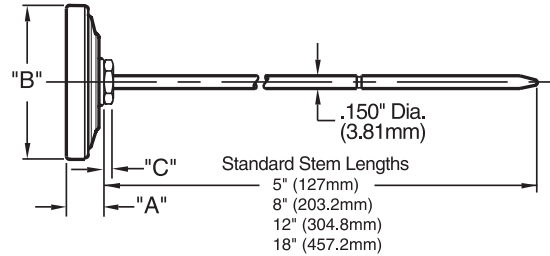
- Threaded connections on non-recal models.
- Other lenses are acrylic, polycarbonate or tempered glass.
- Other stem diameters .140" (3.6mm) and .187" (4.7mm).
- Pocket sheath for 5" or 8" stem.
- Silicone fill on LT225 and LT225R.
- Other configuration combinations available upon request.

➤ **FOR HOW TO ORDER, SEE PAGE 6**

➤ **IMPORTANT NOTES:**

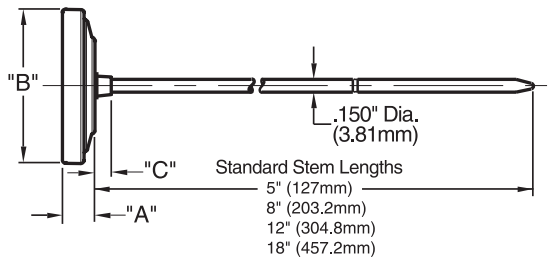
- 1) IMMERSION– For most accurate reading with Tel-Tru thermometers immerse past groove on lower portion of stem.
- 2) MT and BT models are designed with Tel-Tru unique pressure relief ring feature designed to prevent pressure build up in thermometer head while cooking in hot oven.
- 3) Some models and ranges are NSF® certified (National Sanitation Foundation).

➤ **GT-100R, MT-39R, BT-275R AND LT-225R**



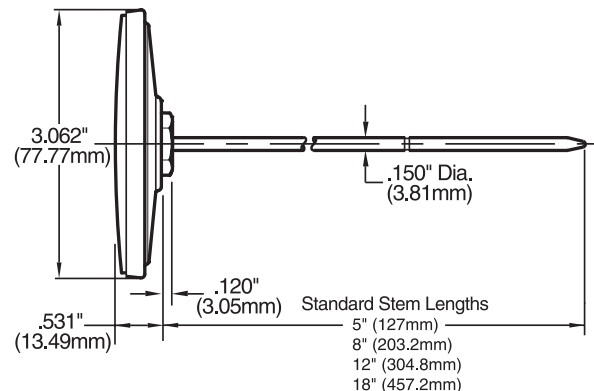
MODEL	"A"	"B"	"C"
GT-100R, MT-39R	.412" (10.47mm)	1.750" (44.45mm)	.102" (2.59mm)
LT-225R, BT-275R	.438" (11.13mm)	2.089" (53.06mm)	.120" (3.05mm)

➤ **GT-100, MT-39, and LT-225**



MODEL	"A"	"B"	"C"
GT-100, MT-39	.350" (8.89mm)	1.750" (44.45mm)	.187" (4.75mm)
LT-225	.438" (11.13mm)	2.089" (53.06mm)	.250" (6.35mm)

➤ **LT-330R**



# 1" and 1<sup>3</sup>/<sub>8</sub>" Testing and Spot Checking Thermometers

A pocket sized thermometer used by inspectors, service and maintenance personnel, and technicians for general checking in food service, refrigeration, air conditioning, hot asphalt and food processing applications. Often modified for OEMs to use in limited space situations.



**AD-44R**  
(Standard,  
with 1<sup>3</sup>/<sub>8</sub>" dial)



**PT-50R**  
(Standard dial,  
with 1" dial)



**PT-50R**  
(Shown with  
pocket sheath)

## ► MODEL CODES:

<b>PT-50</b>	1" diameter head
<b>PT-50R</b>	1" diameter head with calibration feature
<b>AD-10R</b>	1" diameter head with calibration feature
<b>AD-44R</b>	1 <sup>3</sup> / <sub>8</sub> " diameter head with calibration feature

## ► SPECIFICATIONS:

Stem Length:	5" (127mm)
Stem Diameter:	.150"
Connection:	PT-50 model plain bushing is standard. PT-50R, AD10R and AD44R recal nut is standard.
External Reset:	PT50R, AD10R, AD44R and MT39R friction nut design for easy calibration.
Construction:	304 stainless steel external parts. Welded construction. Corrosion resistant to most chemicals.
Hermetic seal:	Per ASME B40.3 dustproof and leakproof.
Dial:	Anodized aluminum with large black numbers and graduations. Glow dial available on PT50R and AD44R.
Lens:	AD10R and AD44R models polycarbonate lens is standard. PT50 and PT50R models polycarbonate lens is standard up to 300°F (150°C) and glass lens over 300°F (150°C).
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.
Pocket sheath:	Standard on 5" PT50R, AD10R and AD44R.



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➤ **STANDARD RANGES:**

Fahrenheit	°/Division	Celsius	°/Division
* -40/160	2°	-40/70	1°
25/125	1°	-10/110	1°
* 0/220	2°	0/50	1/2°
* 50/500	5°	0/250	5°
150/750	10°		

(Additional Ranges Available— Consult factory)

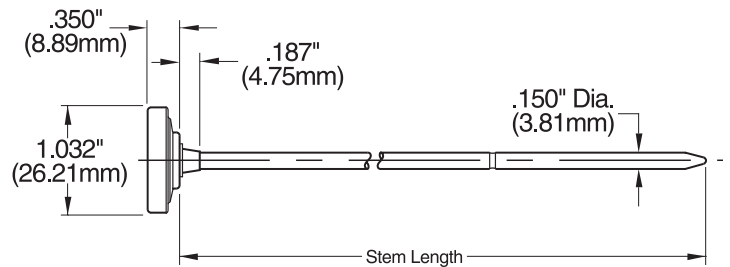
\* NSF® approved for food service applications on models PT-50R, AD-10R and AD-44R

➤ **OPTIONS:**

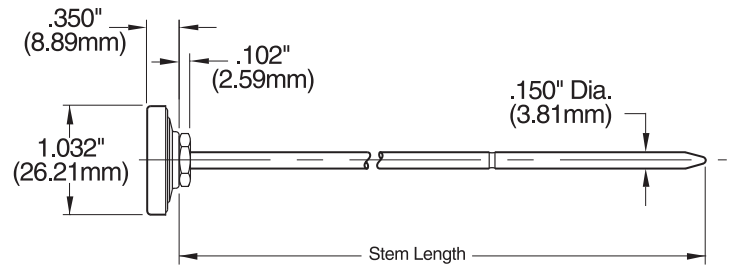
- .140" stem diameter.
- Threaded connections for OEM applications.
- Other configuration combinations available upon request.
- Glow dial available on PT50R and AD44R.

Estimated Shipping Weights	
MODEL	DRY
PT-50 and PT-50R . . .	1 oz.
AD-10R . . . . .	1 oz.
AD-44R . . . . .	2 oz.

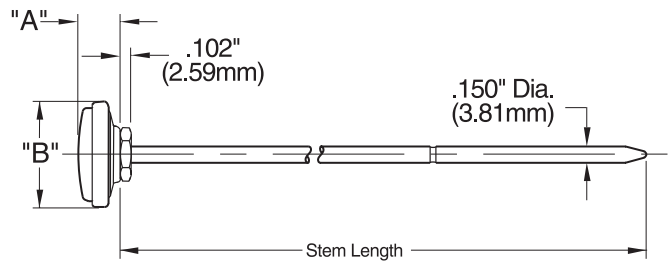
➤ **PT-50**



➤ **PT-50R**



➤ **AD-10R AND AD-44R**



MODEL	"A"	"B"
AD-10R	.400" (10.16mm)	1.004" (25.50mm)
AD-44R	.456" (11.58mm)	1.358" (34.50mm)

➤ **FOR HOW TO ORDER, SEE PAGE 6**

➤ **IMPORTANT NOTES:**

- 1) IMMERSION – For most accurate reading with Tel-Tru thermometers immerse past groove on lower portion of stem.
- 2) CAUTION – Do not subject polycarbonate lens to temperatures above 270°F (130°C).