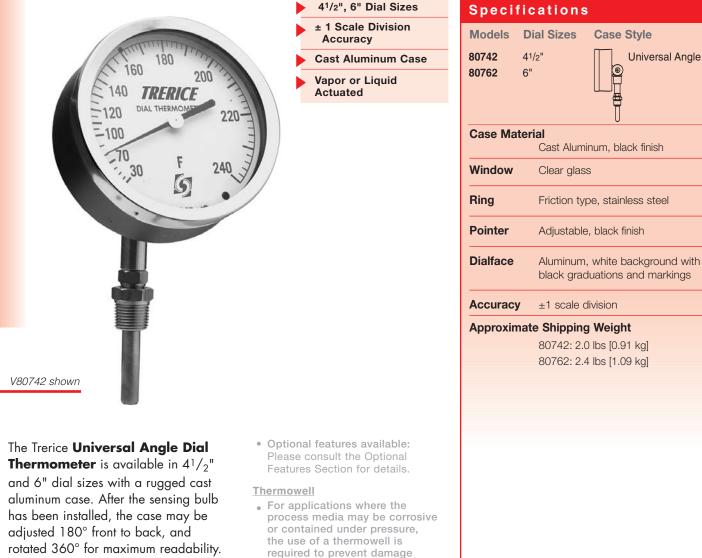
# **Direct Mounted Dial Thermometer**

4<sup>1</sup>/<sub>2</sub>" & 6" Cast Aluminum Case • Universal Angle





to the thermometer and facilitate its removal from the process.

(Refer to page 154)

Sample Order Number: | 90742 110 B25

HOW TO ORDER

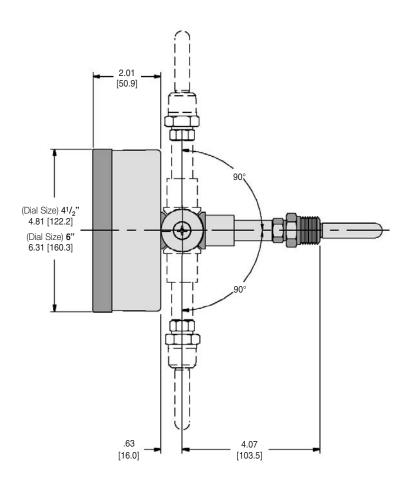
or liquid actuation.

This instrument is available with vapor

		Sample Order				
Actuation	Model	Range Code	Thermal System			
V Vapor L Liquid	80742 80762	See Standard Ranges	See Thermal System Selection (pages 112-113)			



All dimensions are nominal. Dimensions in [ ] are in millimeters.



#### Standard Ranges (Dual Scale includes both Fahrenheit & Celsius)

•

•

	V	/apor Act	uated		Liquid Actuated						
Fahrenheit Scale Range Code Range		C Range Code	elsius Scale Range	Dual Scale Range Code	Fahre Range Code	enheit Scale Range	Ce Range Code	Dual Scale Range Code			
030	-40° to 150°F	430	-40° to 65°C	230	020	-40° to 120°F	420	-40° to 50°C	220		
040	-20° to 100°F	440	-30° to 40°C	240	050	0° to 100°F	450	-20° to 40°C	250		
050	0° to 100°F	450	-20° to 40°C	250	060	0° to 160°F	460	-20° to 70°C	260		
065	0° to 160°F	465	-20° to 70°C	265	100	30° to 180°F	495	0° to 80°C	300		
100	30° to 180°F	500	0° to 85°C	300	110	30° to 240°F	510	0° to 115°C	310		
110	30° to 240°F	510	0° to 115°C	310	130	50° to 300°F	530	10° to 150°C	330		
120	30° to 300°F	520	0° to 150°C	320							
145	100° to 350°F	545	40° to 180°C	345							
160	200° to 450°F	560	90° to 230°C	360							

•

•



m Bulk Incention Le

# **Thermal System Selection**

### **Remote Mounted Dial Thermometers**

Bulb & Capillary Style	Order	Connection	Bulb	Capillary	Minimum Bulb Insertion Length for Capillary Length (in feet) shown			
	Code	Style & Material	Material	Tubing Material	Va up to 10	por Actuate 15-50	d over 50	Liquid Act. All Lengths
Union Connection	B01	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armour	2"	33/4"	5 5/8"	2"
SPLIT BULB	B10	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	2"	33/4"	55/8"	2"
Adjustable Union Connection	B02	Brass, <sup>1</sup> /2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armor	13/4"	31/2"	51/4"	13/4"
/2 N 1105						Adjusta	ole up to 24"	
	B04	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	13/4"	31/2"	51/4"	13/4"
TUBING ADJ. UNION FITTING		/2 111 1				Adjustat	ble up to 24"	1
CONNECTING TUBING TUBING 7/16"	B05	None	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armor	2"	33/4"	55/8"	2"
	B06	None	Stainless Steel	Stainless Steel	2"	33/4"	55/8"	2"
Tefion Covered Bulb	B08	None	Vapor: Copper Liquid: Brass with Teflon Cover	Bronze Braided Armor with Teflon Cover	15"	15"	15"	2 <sup>3</sup> /4"
TEFLON COVER OVERALL	B07	None	Stainless Steel with Teflon Cover	Stainless Steel with Teflon Cover	15"	15"	15"	23/4"
Averaging Bulb	B11*	Brass, 1/2 NPT	Copper	Copper with Bronze Braided Armor	N/A	N/A	N/A	Approx. 8 Feet
SPLIT BULB	B12*	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	N/A	N/A	N/A	Approx. 8 Feet
	+ D11 or	d P10 Aver	aina Bulha ara	not available wit	h vener eet	uation	1	1



\* B11 and B12 Averaging Bulbs are not available with vapor actuation.

•

•

•

•

### Remote Mounted Dial Thermometers (cont'd)

Bulb & Capillary Style	Order				Minimum Bulb Insertion Length for Capillary Length (in feet) shown				
	Code	Style & Material	Material	Tubing Material	Va up to 10	por Actuate 15-50	d over 50	Liquid Act. All Lengths	
Air Sensitive Bulb	B13	Steel Mounting Flange, Brass Fittings	Copper	Copper with Bronze Braided Armor	9"	9"	11"	8"	
ARMORED TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING TUBING	B15	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braid & SS Spiral Armor	2"	3 3/4"	5 5/8"	2"	
SPLIT NUT BULB	B16	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel with SS Spiral Armor	2"	3 3/4"	5 5/8"	2"	

#### **Direct Mounted** Dial Thermometers

Bulb Style	Order Code	Connection Material	Bulb Material	Minimum Bu Len	gth
Union Connection 1/2 NPT HUB /   2"  7/16"	B31	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Vapor Actuated 2"	Liquid Act.
SPLIT BULB	B32	Stainless Steel, 1/2 NPT	Stainless Steel	2"	2"
Union Connection with Bendable Extension	B33	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	31/2"	31/2"
SPLIT NUT	B34	Stainless Steel, 1/2 NPT	Stainless Steel	31/2"	31/2"
Air Sensitive Bulb STEEL MOUNTING FLANGE CONNECTING TUBING SPLIT NUT SPLIT NUT AIR SENSITIVE BULB	B35	Steel Mounting Flange, Brass Fittings	Copper	9"	8"
•	•		•	•	

# **Temperature Ranges**

## Dial Thermometers

Trerice offers a variety of temperature ranges to satisfy virtually any application. The following tables list the standard available ranges with figure intervals and minor divisions for Vapor or Liquid actuated dial thermometers.

Vapor actuated dial thermometers have a progressive scale. Maximum readability and stated intervals are in the upper two thirds of the scale. Liquid actuated dial thermometers have a linear scale. Figure intervals are equal throughout the range. Fahrenheit is primary (outside) scale on dual scale ranges.

Fahrenheit Scale Celsius Scale		Dual	Scale	Fahrenh	Fahrenheit		Celsius		
Range Code	Range	Range Code	Range	Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
030	-40° to 150°F	430	-40° to 65°C	230	-40° to 150°F & -40° to 65°C	20°	2°	10°	1°
040	-20° to 100°F	440	-30° to 40°C	240	-20° to 100°F & -30° to 40°C	10°	2°	5°	1°
050	0° to 100°F	450	-20° to 40°C	250	0° to 100°F & -20° to 40°C	10°	1°	10°	1°
065	0° to 160°F	465	-20° to 70°C	265	0° to 160°F & -20° to 70°C	20°	2°	10°	1°
100	30° to 180°F	500	0° to 85°C	300	30° to 180°F & 0° to 85°C	20°	2°	10°	1°
110	30° to 240°F	510	0° to 115°C	310	30° to 240°F & 0° to 115°C	20°	2°	10°	1°
120	30° to 300°F	520	0° to 150°C	320	30° to 300°F & 0° to 150°C	20°	2°	10°	1°
145	100° to 350°F	545	40° to 180°C	345	100° to 350°F & 40° to 180°C	30°	2°	10°	1°
160	200° to 450°F	560	90° to 230°C	360	200° to 450°F & 90° to 230°C	30°	2°	10°	2°

#### Vapor Actuated Ranges with Major and Minor Divisions

Vapor actuated dial thermometers have a progressive scale. Maximum readability and stated intervals are in the upper two thirds of the scale.

#### Liquid Actuated Ranges with Major and Minor Divisions

Fahre	enheit Scale	Celsi	us Scale	Dual	Scale	Fahrenh	eit	Celsius	
Range Code	Range	Range Code	Range	Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Division
020	-40° to 120°F	420	-40° to 50°C	220	-40° to 120°F & -40° to 50°C	20°	2°	10°	1°
050	0° to 100°F	450	-20° to 40°C	250	0° to 100°F & -20° to 40°C	10°	1°	10°	0.5°
060	0° to 160°F	460	-20° to 70°C	260	0° to 160°F & -20° to 70°C	20°	2°	10°	1°
100	30° to 180°F	495	0° to 80°C	300	30° to 180°F & 0° to 85°C	20°	2°	10°	1°
110	30° to 240°F	510	0° to 115°C	310	30° to 240°F & 0° to 115°C	20°	2°	10°	1°
1 <b>30</b>	50° to 300°F	530	10° to 150°C	330	50° to 300°F & 10° to 150°C	50°	5°	20°	2°

•

Liquid actuated dial thermometers have a linear scale. Figure intervals are equal throughout the range.

