

Bimetal, Industrial Type



100 SERIES

- Heavy-duty, industrial thermometer featuring a weather-resistant, tamper-proof case
- Single °F, single °C, and dual scale options available
- Accuracy: ±1% full scale, Grade A, ASME B40.3
- 1-3/4", 2", 3" and 5" sizes - center back connection only
- 304 stainless steel case and bezel
- Standard stem lengths 2-1/2" through 42"
- Highly sensitive bimetallic helix coil is heat-treated for stress relief, and silicone-coated to minimize pointer vibration and maximize heat transfer and response time
- 360° groove around stem is a visual reference to show minimum immersion point
- Made in the U.S.A.

APPLICATIONS

Used in almost every area of manufacturing, especially suited for applications in the following areas:

- Industrial process
- Petrochemical
- Food & beverage processing
- Commercial
- Wastewater

	SERIES	SPECIFICATIONS
Case & bezel	All 100 Series	304 stainless steel; 316 stainless steel optional
Lens	All 100 Series	Instrument glass
Pointer	All 100 Series	Aluminum, black finish
Stem diameter	18-110 20-110, 30-110, 50-110	.150" (3.81 mm) .250" (6.35 mm)
Accuracy	All 100 Series	±1% full scale, Grade A, ASME B40.3
Dial	All 100 Series	Anodized aluminum with large black numbers and graduations
Process connection	18-110 20-110 30-110, 50-110	1/4" NPT, 1/8" and 3/8" NPT optional 1/4" NPT 1/2" NPT
Wetted parts	All 100 Series	304 stainless steel; 316 stainless steel optional
Hermetic seal	All 100 Series	Per ASME B40.3 dustproof and leakproof
Bimetal coil	All 100 Series	Silicone coated helix coil on ranges below 500 °F for vibration dampening, maximum heat transfer and response time
Over temperature limits	All 100 Series	Up to 250 °F 100%; 250 °F to 550 °F 50%; 550 °F to 1,000 °F continuous use up to 800 °F; intermittent use over 800 °F

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 46-48.

ORDERING INFORMATION							
DIAL SIZES	18	1-3/4" ††	30	3"			
	20	2"	50	5"			
CASE TYPES	110	Back connection					
STEM LENGTHS	025	2-1/2"	090	9"	240	24"	
Available up to 120"	040	4"	120	12"	300	30"	
	060	6"	150	15"	360	36"	
	080	8" †	180	18"	420	42"	
TEMPERATURE RANGES	-100/100 F/C	-100 °F/°C to 100 °F/°C	0/250 F/C	0 °F/°C to 250 °F/°C	50/500 F/C	50 °F/°C to 500 °F/°C	
Dual Scale °F/°C	-40/160 F/C	-40 °F/°C to 160 °F/°C	20/240 F/C	20 °F/°C to 240 °F/°C	150/750 F/C	150 °F/°C to 750 °F/°C	
	0/140 F/C	0 °F/°C to 140 °F/°C	25/125 F/C	25 °F/°C to 125 °F/°C	200/1000 F/C	200 °F/°C to 1,000 °F/°C*	
	0/180 F/C	0 °F/°C to 180 °F/°C	50/300 F/C	50 °F/°C to 300 °F/°C			
	0/220 F/C	0 °F/°C to 220 °F/°C	50/400 F/C	50 °F/°C to 400 °F/°C			
Single Scale °F	-100/100 F	-100 °F to 100 °F	0/300 F	0 °F to 300 °F**	50/550 F	50 °F to 550 °F	
	-50/120 F	-50 °F to 120 °F	0/500 F	0 °F to 500 °F**	100/800 F	100 °F to 800 °F**	
	-40/160 F	-40 °F to 160 °F	20/240 F	20 °F to 240 °F	150/750 F	150 °F to 750 °F	
	0/140 F	0 °F to 140 °F	25/125 F	25 °F to 125 °F	200/1000 F	200 °F to 1,000 °F*	
	0/180 F	0 °F to 180 °F	50/250 F	50 °F to 250 °F			
	0/200 F	0 °F to 200 °F	50/300 F	50 °F to 300 °F			
	0/220 F	0 °F to 220 °F	50/400 F	50 °F to 400 °F			
	0/250 F	0 °F to 250 °F	50/500 F	50 °F to 500 °F			
Single Scale °C	-75/175 C	-75 °C to 175 °C	0/50 C	0 °C to 50 °C	0/300 C	0 °C to 300 °C	
	-70/70 C	-70 °C to 70 °C**	0/60 C	0 °C to 60 °C**	0/400 C	0 °C to 400 °C	
	-50/100 C	-50 °C to 100 °C**	0/80 C	0 °C to 80 °C**	0/450 C	0 °C to 450 °C	
	-50/50 C	-50 °C to 50 °C	0/100 C	0 °C to 100 °C	100/400 C	100 °C to 400 °C	
	-40/70 C	-40 °C to 70 °C	0/150 C	0 °C to 150 °C	100/550 C	100 °C to 550 °C*	
	-20/120 C	-20 °C to 120 °C**	0/200 C	0 °C to 200 °C			
	-10/110 C	-10 °C to 110 °C**	0/250 C	0 °C to 250 °C			
	Consult factory for additional temperature ranges						
OPTIONS	1/8	1/8" NPT †	AU	1/2" NPT Adjustable Union**	SL	Silicone Filled (500 °F Max)***	
	3/8	3/8" NPT †	HD	Heavy-Duty Stem (0.375" Dia.)**	ST	Stainless Steel Tagging	
	6	6 mm stem diameter**	LL	Polycarbonate Lens	TG	Tempered Glass Lens † † †	
	8	8 mm stem diameter**	PL	Acrylic Lens			
	316	316 SS Wetted Parts**	SG	Safety Glass Lens**			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

Note: All 316 Stainless Steel construction (case, bezel, wetted parts) is available. Please consult factory.

* Thermometers with temperature ranges 200/1000 °F and 100/500 °C are not recommended for continuous use above 800 °F/425 °C. For intermittent use only.

** Available for 30-110 and 50-110 models only.

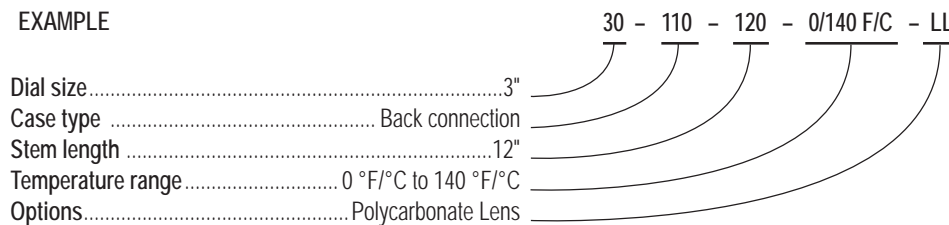
*** Available for 20-110, 30-110 and 50-110 models only.

† Available for 18-110 model only.

† † 18-110 model is only available in 2-1/2", 4", 6", 8", 12", 15" and 18" stem lengths.

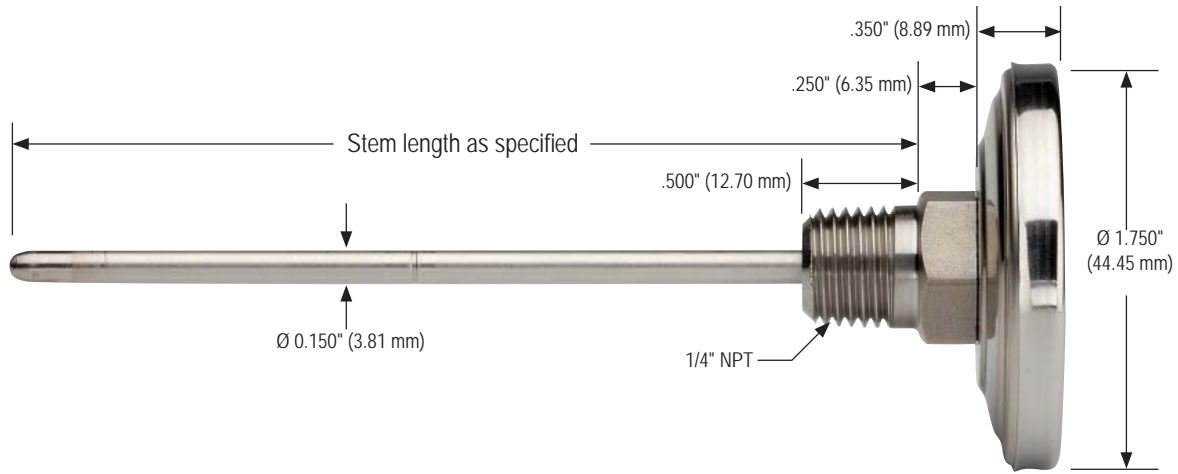
† † † Not available with Silicone Filled (SL) option.

EXAMPLE

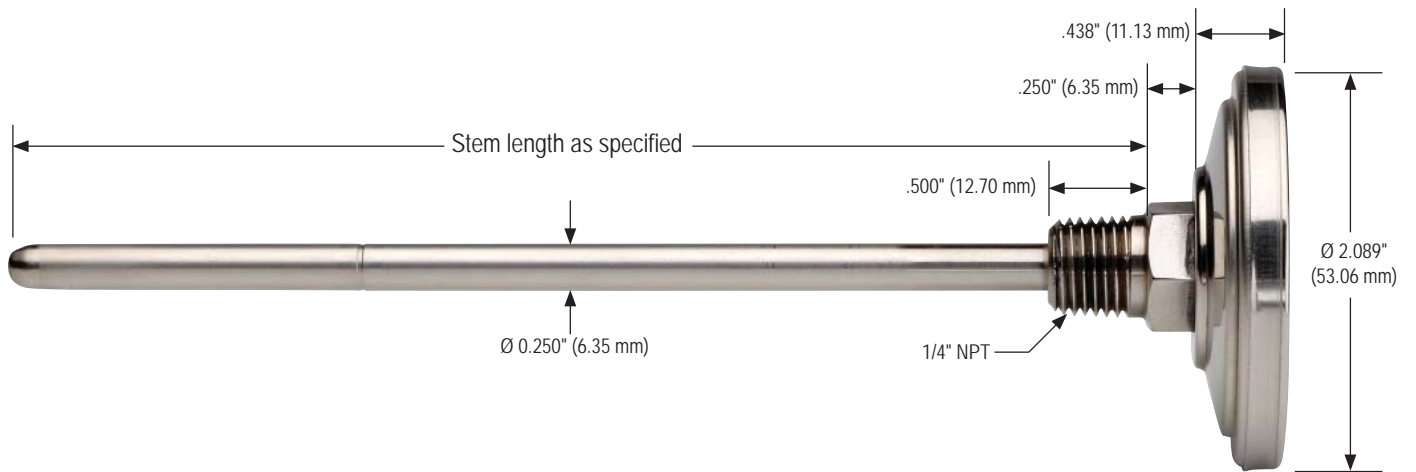


Dimensions

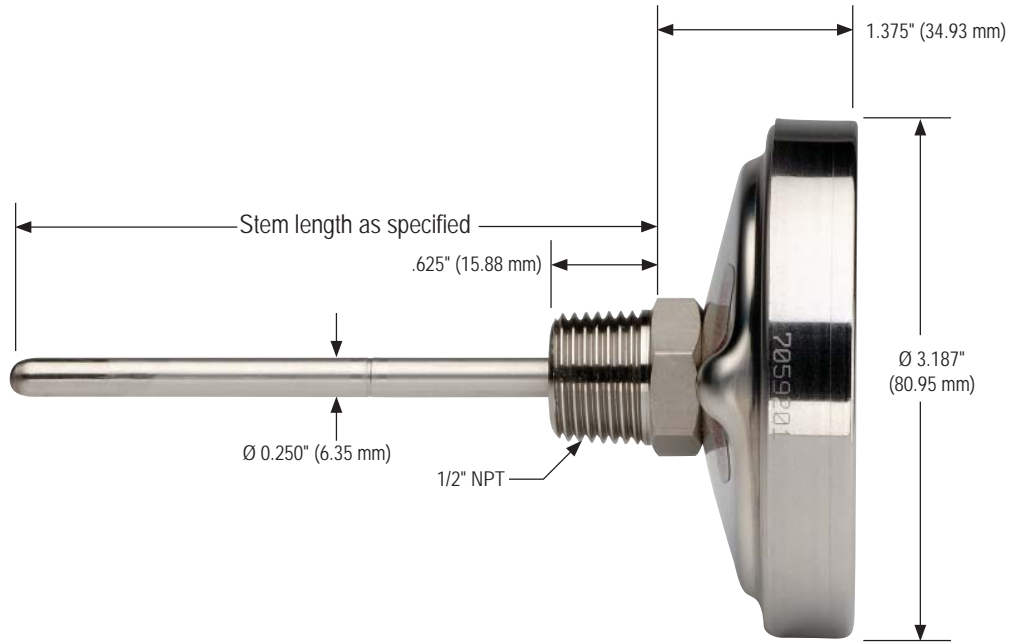
18-110



20-110



30-110



50-110

