

Since 1964

BI-METAL THERMOMETERS CATALOG



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Supply House to the Processing Industries Since 1964

Trusted supply house of sanitary processing equipment, parts and supplies for the dairy and food, brewery, beverage and pharmaceutical industries.

Harco Enterprises offers a diverse line of sanitary and hygienic processing equipment, parts and supplies including pumps, sanitary valves, separators, homogenizers, gaskets and fittings, sanitary hoses, and instrumentation as well as a variety of other products from world leading manufacturers such as Alfa Laval, Ampco, Tetra Pak, Burkert, Tri-Clover, Remco, Vikan, Carlisle, Haynes, Strahman, and more.

These products are distributed to dairy, food, beverage processing facilities as well as the pharmaceutical, brewing, and fisheries industries throughout North America.

Many of our products are customized in design due to strict sanitary and hygienic standards, and all are built to stand up to the demands of high production environments. Resourcefulness and quick delivery are important to you, and Harco always provides both.

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1-800-361-5361 • www.harcosupply.com Bi-MetalThermometers

Bi-Metal Thermometers

The Bi-Metal Thermometer is built to function for many years with little or no maintenance. Our dedication to quality is not only evident in our products, but also in our customer service. We offer immediate availability on all products and respond quickly with quality service at reasonable prices We feel so strongly about the quality of our products and service that we guarantee complete satisfaction.

FEATURES

Standard 304 Stainless Steel Case and Bezel on all external parts increases corrosion resistance.

Super Sensitive Bimetallic Helix Coil is fabricated to tight tolerances. Heat treated for stress relief and silicone coated to minimize pointer vibration and maximize heat transfer and response time

Bi-Metal Bushing is pressed into groove on stem to center the coil in stem. 302 stainless steel stem wire through center of bushing connects bimetal element to pointer to minimize coil interference with tube wall.

C.I.P. - can be cleaned in place for convenience and eliminates the possibility of damage from mishandling.

Temperature Ranges from -100°F (-75°C) to 1000°F (550°C).

Hermetic Seal on Case/Bezel assembly is a precision interference fit. Silicone gasket provides dustproof and leakproof seal

External Reset Calibration adjusts using an Allen wrench to discourage tampering.

Silicone Fill is available on all gauges for additional dampening of extreme vibration, or to assure consistent performance in low process temperature/high environmental humidity

140°F (60°C) Maximum process temperature Please consult factory when ordering for higher temperature applications.

Immediate Availability from stock for all pressure gauges.

Experienced Engineers are available to answers questions and solve difficult application problems.

Unparalleled Customer Service where the customer is always right and we are not happy until the customer is satisfied.

SPECIFICATIONS

±2°F (1°C)
30%
316L Stainless Steel
304 Stainless Steel
(76, 102, 127mm) Dia.
Glass
Shatter-Resistant Materials
1000°F (-75°C/550°C)
Silicone
Standard
11 oz, 16 oz, 20 oz
" 14 oz, 22 oz, 30 oz

AVAILABLE RANGES

20 different temperature ranges are available in both Fahrenheit and Celsius. Refer to back page for specific information.

AVAILABLE FITTINGS

1/2-18 NPT. 3/4" Tri-Clamp®, 11/2" Tri-Clamp®, 2" Tri-Clamp®, 21/2" Tri-Clamp®, 3" Tri-Clamp®, 4" Tri-Clamp®.

AVAILABLE MOUNTINGS

Bottom, Back and Adjustable mount.

Tri-Clamp® is a registered trademark of Tri-Clover, Inc.



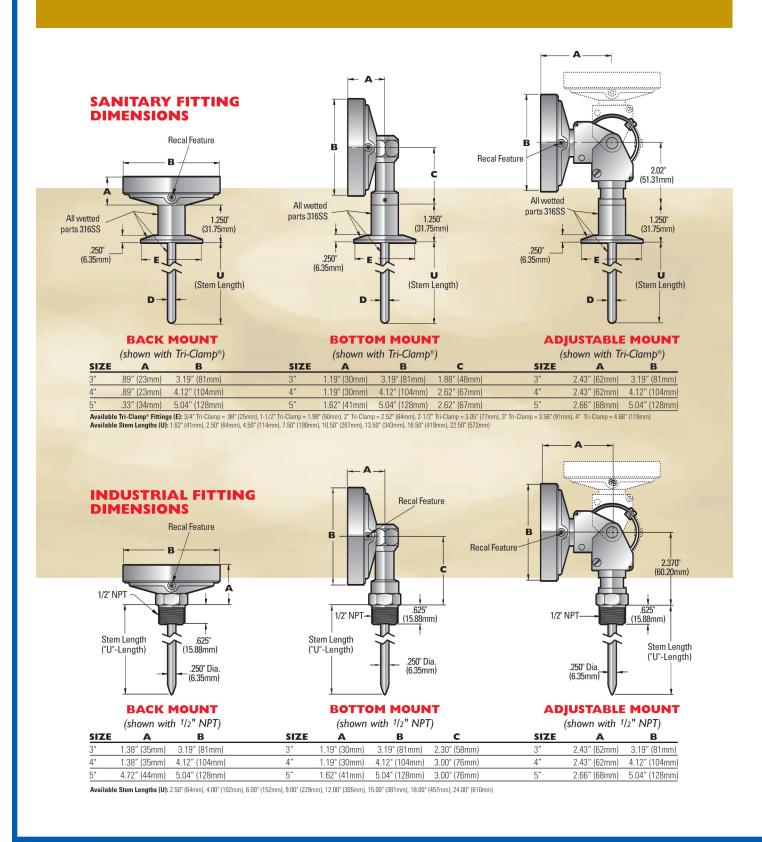
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ORDERING INFORMATION

MODEL NUMBER CONSISTS OF: SERIES TEMP. RANGE FITTING MOUNT PR

SERIES	TEMP. RANGE	FITTING	MOUNT	PROBE LENGTH	PROBE DIA.	LENS
3 B	T67	2U	BK	L4.5	3/8	Α

Below are typical examples of models with their descriptions.

EXAMPLE 1:

3B - T67 - 2U - BK -<u>L4.5 - 3 /8 -</u> A

Describes a 3" (76mm) Bi-metal Thermometer, 0 to 250°F, 2" Tri-Clamp tting,back mounted,41/2" probe length with a .375" probe diameter, standard glass lens.

EXAMPLE 2: 4B - T87 - 3U - BT -

L22.5 - 3 /8 - C

Thermometer, -75 to 175°C, 3" Tri-Clamp tting,bottom mounted 22½" probe length with a .375" probe diameter, safety glass lens.

EXAMPLE 3: 5B - T6 1 - 1 /2NPT - AA -L7.5 - 3 /8 - E

Describes a 5" (127mm) Bi-metal Thermometer, 50 to 250°F, 1/2" NPT tting,adjustable angle, 7/2" probe length with a .375" probe diameter, polycarbonate lens.

Please make a selection from each category below:

SERIES

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3B 3" Dial **4B** 4" Dial

5B 5" Dial

TEMPERATURE RANGE T51 -100/100°F **T87** -75/175°C **T52** -50/120°F **TEA** -70/70°C T71-50/100°C T53 -40/160°F **T54** 0/140°F **T72** -50/25°C T55 0/180°F **T73** -50/50°C **T50** 0/200°F **T84** -40/70°C **T86** -20/120°C **T56** 0/220°F **T67** 0/250°F **T74** -10/110°C **T57** 0/300°F **T75** 0/50°C **T58** 0/500°F **T95** 0/60°C **T59** 20/240°F **TEI** 0/80°C **T76** 0/100°C **T60** 25/125°F **T77** 0/150°C **T6 1** 50/250°F **T78** 0/200°C **T62** 50/300°F **T63** 50/400°F T79 0/250°C **T80** 0/300°C **T64** 50/500°F **T68** 50/550°F T810/400°C **T44** 100/800°F **T90** 0/450°C **T65** 150/750°F **T82** 100/400°C

*Not for continued use above 800°F (425°C)

T83 *100/550°C

(for intermittent use only).

T66 *200/1000°F

Ranges vary by dial size and fitting.

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

FITTINGS

3⁄4U	3/4" Tri-Clamp (3 16SS)*
1½U	1½" Tri-Clamp (316SS)**
2U	2" Tri-Clamp (3 16SS)
21⁄2U	2½" Tri-Clamp (3 16SS)
3U	3" Tri-Clamp (3 16SS)
4U	4" Tri-Clamp (3 16SS)
½NPT	1⁄2" NPT (316SS)

MOUNT

BT Bottom MountBK Back MountAA Adjustable Angle

PROBE LENGTH (U)

THOPLE	
L2.5	21⁄2" (1⁄2" NPT)
L4	4" (1⁄2" NPT)
L6	6" (½" NPT)
L9	9" (1⁄2" NPT)
L12	12" (½" NPT)
L15	15" (½" NPT)
L18	18" (1⁄2" NPT)
L24	24" (1⁄2" NPT)
L30	30" (1⁄2" NPT)
L36	36" (1⁄2" NPT)
L42	42" (1⁄2" NPT)
L1.625	1.625" (Tri-Clamp
L2.5	2.5" (Tri-Clamp)
L4.5	4.5" (Tri-Clamp)
L7.5	7.5" (Tri-Clamp)
L10.5	10.5" (Tri-Clamp)
L13.5	13.5" (Tri-Clamp)
L16.5	16.5" (Tri-Clamp)
L22.5	22.5" (Tri-Clamp)
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PROBE DIAMETER (D)

15/64	.236"
1/4	.250" Standard on NPT
5/16	.315"
3/8	.375" Standard on Tri-Clamp

LENS

- A Glass (Standard)
- B Tempered Glass
- **C** Safety Glass
- D Plastic,Acrylic
- E Plastic, Polycarbonate

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Product Line Card

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