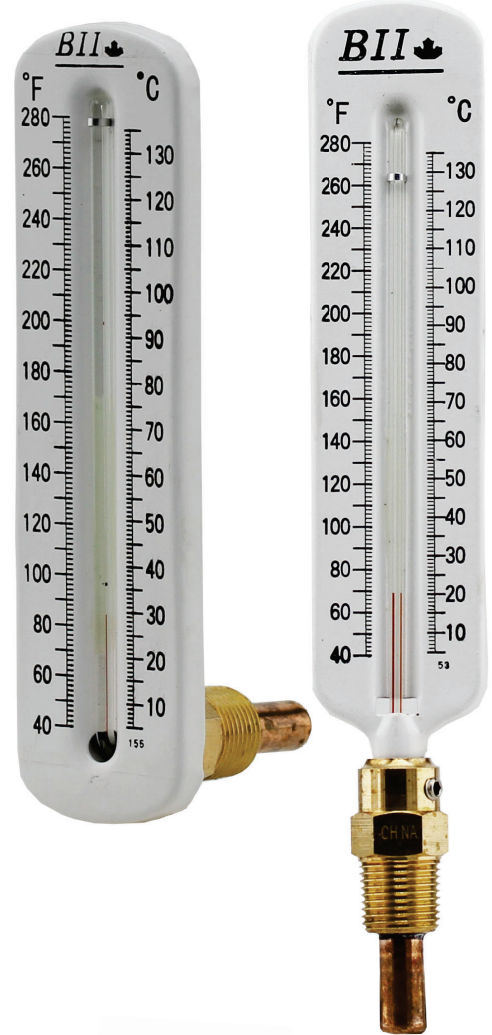
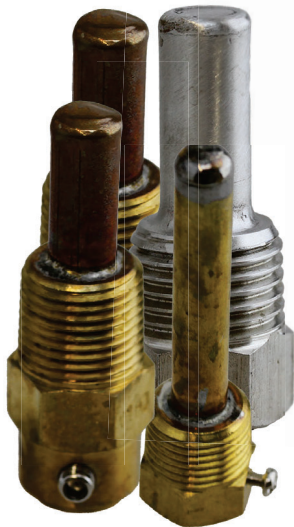


INTRODUCTION TO TRIDICATORS, THERMOWELLS & THERMOMETERS

Tridicators, bi-metal thermometers, thermowells and hot water thermometers are commonly used in hydronic heating, plumbing and industrial systems. Tridicators monitor pressure, temperature and system altitude in boilers and pressurized hot water applications. Bi-metal thermometers provide reliable, direct temperature readings in pipes, tanks and equipment. Thermowells protect temperature instruments from pressure, flow and corrosive media while allowing for easy maintenance. Hot water thermometers are used to measure water temperature in heating and plumbing systems, ensuring safe and efficient operation.



User Responsibility Statement: It is the user's sole responsibility to determine the product's suitability for its intended use. For full details, visit Boshart Industries [Reference Documents](#) for our User Safety Responsibility Statement and other important documents.



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TRIDICATORS

APPLICATIONS:

A tridicator is a combination gauge commonly used in heating and boiler systems. It measures and displays three key parameters in one unit: pressure, temperature and altitude (or sometimes pressure in PSI and feet of water). They are a combination of a pressure gauge and a thermometer consisting of a bourdon tube and a coiled bi-metal element. This allows operators to easily monitor system conditions without needing multiple separate gauges.

FEATURES:

- 3" dial face comes with adjustable indicator
- Pressure Accuracy: $\pm 3\%$ - 2% - 3%
- Temperature Accuracy: $\pm 2\%$
- Equipped with relief set point indicator
- 2-1/2" dial in a red steel case, 3" dial in a black steel case



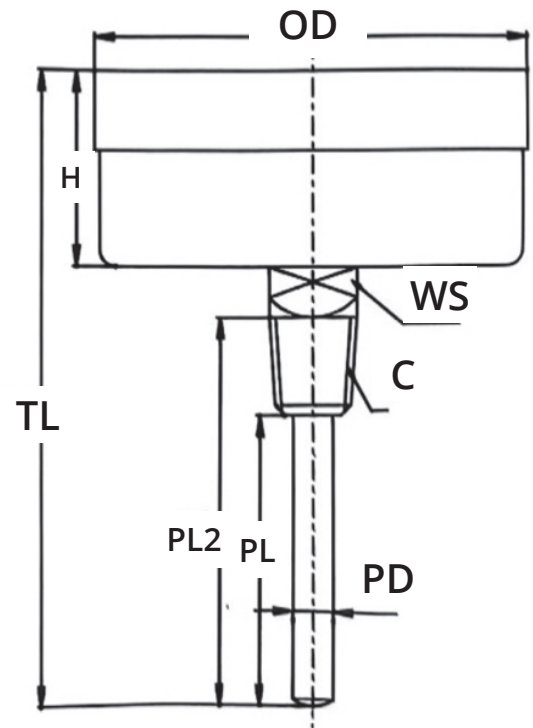
SPECIFICATIONS:

- ANSI/ASME B40.1 Pressure Gauges and Gauge Attachments

RATINGS:

Part No.	Gauge Type	Mount Type	Dial Range		Temperature Range	
			PSI	kPa	°F	°C
TR25-CB1-60/250	Standard	Back	0-75	0-500	30-250	0-120
TR25X1-CB1-60/250	Extended	Back	0-75	0-500	30-250	0-120
TR30-CB2-60/250	Standard	Back	0-75	0-500	30-250	0-120
TR30-CB2S-60/250	Short	Back	0-75	0-500	30-250	0-120
TR30-LM2-60/250	Standard	Lower	0-75	0-500	30-250	0-120
TR30-LM2-80/290	Standard	Lower	0-200	0-1400	80-290	26-143

SPECIFICATIONS	
Part Name	Material
Dial	White Aluminum
Case	Red (2-1/2") or Black (3") Steel
Lens	Glass
Connection	Brass
Bourdon Tube	Brass
Element	Coiled Bi-Metal/ Brass
Pointer	Aluminum (Anodized Black)
Welding	Tin Solder



DIMENSIONS																
Part No.	C (Connection)	WS (Wrench Size)	OD (Outside Diameter)		H (Height)		PD (Probe Diameter)		PL1 (Probe Length 1)		TL (Total Length)		PL2 (Probe Length 2)		Weight	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	grams
TR25-CB1-60/250	1/4"	9/16"	2.70	68.50	1.26	32.00	0.25	6.35	1.65	42.00	3.66	93.00	2.13	54.00	0.40	181.44
TR25X1-CB1-60/250	1/4"	16mm	2.70	68.50	1.26	32.00	0.25	6.35	1.65	42.00	5.12	130.00	2.13	54.00	0.55	249.48
TR30-CB2-60/250	1/2"	7/8"	3.31	84.00	1.22	31.00	0.35	9.00	2.28	58.00	4.92	125.00	2.80	71.00	0.55	249.48
TR30-CB2S-60/250	1/2"	7/8"	3.31	84.00	1.22	31.00	0.35	9.00	0.71	18.00	3.50	89.00	1.22	31.00	0.55	249.48
TR30-LM2-60/250	1/2"	15/16	3.31	84.00	1.34	34.00	0.35	9.00	2.28	58.00	6.77	172.00	2.95	75.00	0.66	299.37
TR30-LM2-80/290	1/2"	7/8"	3.31	84.00	1.34	34.00	0.35	9.00	2.28	58.00	6.77	172.00	2.95	75.00	0.66	299.37

Pressure $\pm 3\%$ - 2% - 3% Accuracy

Temperature $\pm 1.5\%$ Accuracy

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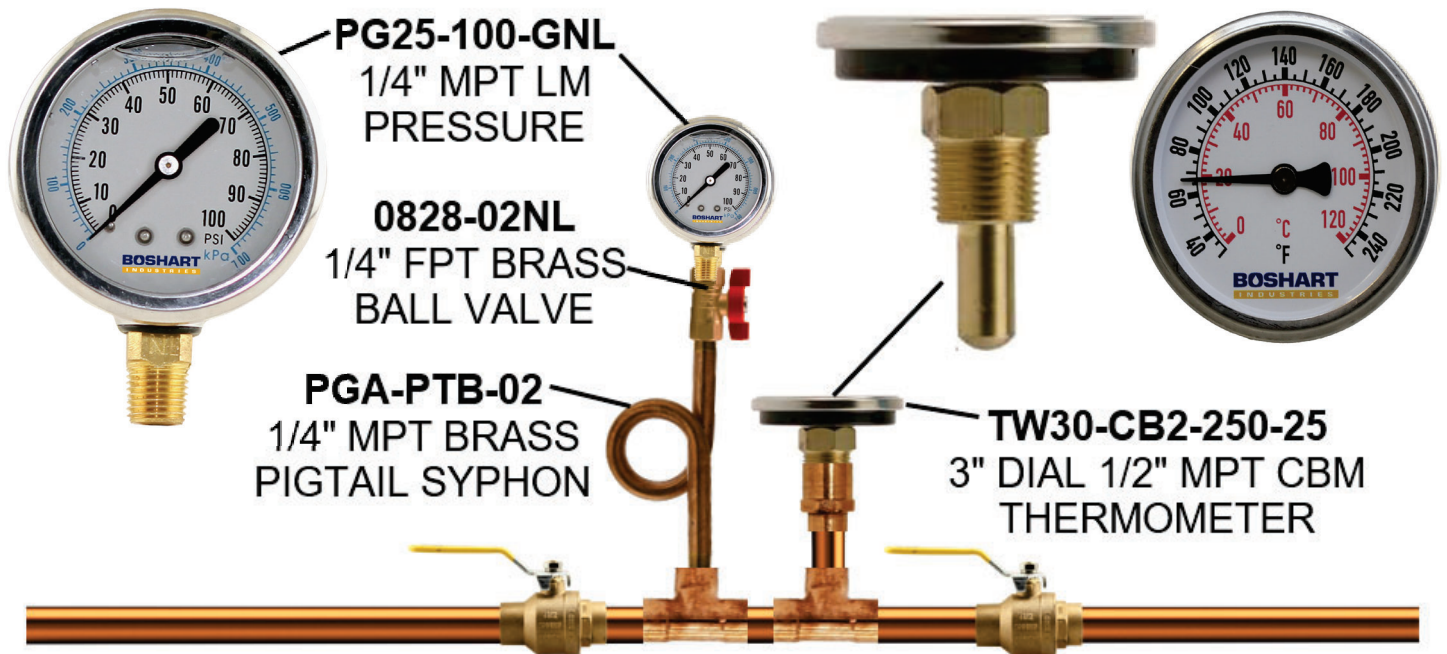
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For more information on installation, adjustment, repair & operation, visit Boshart Knowledge Base at SUPPORT.BOSHART.COM



Great alternative to using tridicators:

Yes, there is a great alternative option to using Tridicators, although this option is not as compact as a two-in-one pressure and temperature gauge. It requires two separate accessory ports, rather than just one to install both a thermometer and a separate pressure gauge on a pigtail syphon to reduce heat transfer to a standard pressure gauge. This option has four key benefits over using Tridicators as detailed below.



1. With a valve on the pigtail siphon to enable isolation of the pressure gauge, the gauge can be changed out without shutting down the boiler system.
2. Bi-metal thermometers do not have water coming directly into the gauge to sense the water pressure, so there is no risk of leakage inside the gauge.
3. The installation of a thermowell allows the bi-metal thermometer to be changed without shutting down the boiler as the thermowell stays installed. The heat is transferred from the thermowell to the temperature sensing probe and bi-metal sensor,
4. There is no need to change out both gauges if one of the two gauges was to fail.

