



BI-METAL THERMOMETERS



DESCRIPTION

Bimetal thermometers are measuring instruments used to indicate temperature. The name bimetal refers to the fact that the thermometer is constructed with two thin strips of metal with different degrees of heat co-efficient. The two metal strips are bonded together and form a helix or coil which in turn is attached to a pointer on a dial.

When the temperature increases or decreases the two strips of metal react differently and cause movement in the coil which in turn moves the pointer on a dial thereby indicating the temperature.

Bimetal thermometers are simple to read, are hermetically sealed (waterproof) and have recalibrator-reset screws to adjust the pointer if necessary. The bimetal thermometer case and stem are made of 303 stainless steel.

Winter's Bi-metal Thermometers are designed to provide fast and accurate temperature readings for most industrial applications (eg. HVAC applications, food applications, etc.) A hermetically sealed, dished shaped dial prevents parallax error when a temperature reading is taken.

When vibration exists, liquid filling is available to dampen pointer movement. For food and other applications where glass is not permitted, an acrylic lens is available.

* For pressures above 125 psi (861 kPa) it is recommended that a Winter's Thermowell be used in conjunction with the bi-metal thermometer.

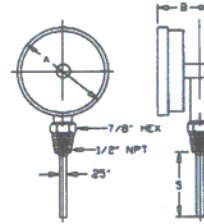
** N/A on 3" bottom.

SPECIFICATIONS

Dial:	2" (50mm), 3" (75mm) and 5" (125mm) dials, aluminum with black markings, dished shaped.
Case:	AISI 303 stainless steel
Ring:	AISI 303 stainless steel
Lens:	Glass standard, hermetically sealed
Pointer:	Brass, painted black
Movement:	Bi-metallic coil
Stem:	AISI 303 stainless steel, centre back, bottom or adjustable angle configurations (note: 2" (50mm) dial only available with centre back connection)
Connection:	1/4" npt standard for 2" (50mm) dial 1/2" npt standard for 3" (75mm) and 5" dials (125mm)
Recalibrator:	Standard**
Maximum Operating Pressure:	125 psi (861 kPa)*
Ambient Temperature:	Maximum +248F (+120C)
Operating Temperature:	Recommended maximum 75% of full scale value
Accuracy	1% full scale

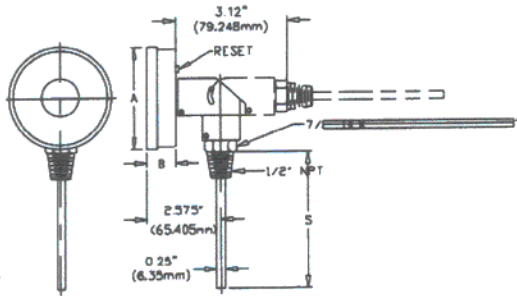
BI-METAL THERMOMETERS

STRAIGHT, RIGHT SIDE, LEFT SIDE



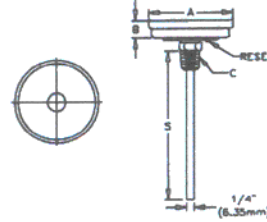
	A	B	S
3"/76mm	3.025"/76.835mm	1.725"/43.815mm	AS SPEC D ABOVE
5"/127mm	5.00"/127.00mm	1.800"/45.72mm	AS SPEC D ABOVE

ADJUSTABLE ANGLE



	A	B	S
3"/76mm	3.025"/76.835mm	1.725"/43.815mm	AS SPEC D ABOVE
5"/127mm	5.00"/127.00mm	1.800"/45.72mm	AS SPEC D ABOVE

90 DEGREE BACK ANGLE



	A	B	S
3"/76mm	3.025"/76.835mm	1.725"/43.815mm	AS SPEC D ABOVE
5"/127mm	5.00"/127.00mm	1.800"/45.72mm	AS SPEC D ABOVE

How to order: Specify product code

Dial Size	Stem length	Product #: Fixed Center Back	Bottom	Adjustable Angle
2" (50mm)	2.5" (63mm)	T20025	N/A	N/A
	4" (100mm)	T20040	N/A	N/A
	6" (150mm)	T20060	N/A	N/A
	9" (225mm)	T20090	N/A	N/A
	12" (300mm)	T20120	N/A	N/A
	3" (75mm)	2.5" (63mm)	T30025	T31025
4" (100mm)		T30040	T31040	T32040
6" (150mm)		T30060	T31060	T32060
9" (225mm)		T30090	T31090	T32090
12" (300mm)		T30120	T31120	T32120
5" (125mm)		2.5" (63mm)	T50025	T51025
	4" (100mm)	T50040	T51040	T52040
	6" (150mm)	T50060	T51060	T52060
	9" (225mm)	T50090	T51090	T52090
	12" (300mm)	T50120	T51120	T52120

Longer stem lengths are available.

RANGES

Note: Add code "G" for liquid filled dial, 3" (75mm) & 5" (125mm) only, up to 300°F (150°C)

F & C (Dual)	Code #	F only	Code #	C Only	Code #
-100/150° F / -70/ 70° C	B1	-40/120° F	B14	-100/50° C	B26
- 40/120° F / -40/ 50° C	B2	-40/160° F	B15	-50/50° C	B27
0/140° F / -20/ 60° C	B3	0/140° F	B16	0/50° C	B28
- 40/160° F / -40/ 70° C	B4	0/200° F	B17	-50/100° C	B29
25/125° F / - 5/ 50° C	B5*	20/240° F	B18	0/100° C	B30
0/200° F / -20/ 90° C	B6	0/250° F	B19	-20/120° C	B31
20/240° F / - 5/115° C	B7	50/300° F	B20	0/150° C	B32
0/250° F / -20/120° C	B8	50/400° F	B21	0/200° C	B33
50/300° F / 10/150° C	B9	50/550° F	B22	0/300° C	B34
50/400° F / 10/200° C	B10	150 / 750° F	B23	0/450° C	B35
50/500° F / 10/260° C	B11	0/800° F	B24	100/550° C	B36
150/750° F / 100/400° C	B12	200/1000° F	B25		
200/1000° F / 100/540° C	B13				

* Not available with a 2.5" (63mm) stem.

Other dial sizes, ranges, connections and stem lengths are available upon request.

OPTIONS: • AP3 = 3" Acrylic lens • AP5 = 5" Acrylic lens



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