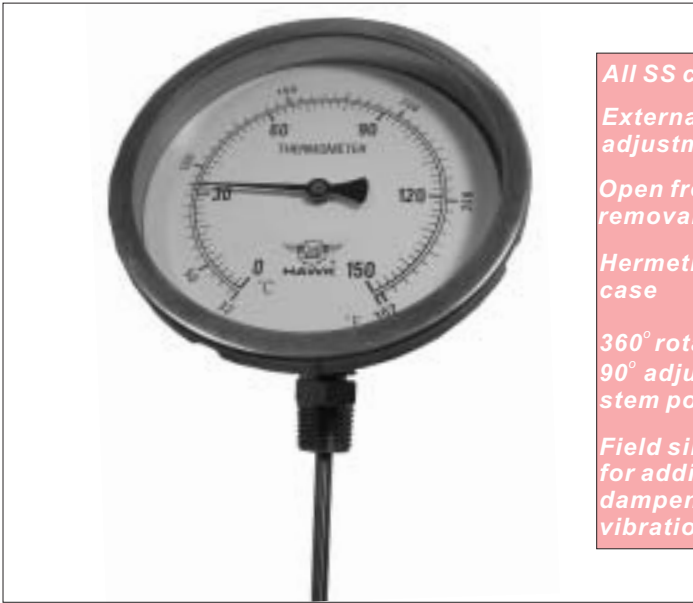


HAWK Industrial Bimetal Thermometer

Since 1971

Adjustable Angel



All SS construction
External re-calibration adjustment
Open front/removable ring
Hermetically sealed case
360° rotation of head, 90° adjustment of stem position
Field silicon fillable for additional dampening for extreme vibration

HAWK BTE series adjustable angle bimetal thermometer allows the entire dial face rotation of 360° and stem adjustment at least 90°. This model is excellent in most industries where easy viewing, readability, installation are required. Our bimetal thermometers are welded all stainless steel construction and are hermetically sealed. These instruments are leak tested completely to insure the integrity of the joints in the process of producing. HAWK supplies a wide selections of the available temperature ranges from -50 °C to 550 °C or equivalent in °F.

BTE Series

Typical Applications:

★Petrochemical, oil and gas processing ★Medical and pharmaceutical industry ★Dairy processing
 ★Food and beverage processing ★Power generating stations ★offshore oil platforms ★Pulp and paper mills★Waste water treatment

Specifications:

Operating:

The temperature of the case should not be allowed to be exposed to continuous temperature in excess of 200 °F(95 °C). If silicone filled, the temperature limit is 150 °F(65 °C). Stem and bulb should not be contact with sustained process temperature exceeding 50% over-range or 800 °F(425°C).

Immersion:

For getting the correct temperature readings, the stem of all models in all ranges must be immersed 2" deep in liquid, and 4" deep in gas except for 0/50 °C(32/122 °F) which require 3" deep in liquid, and 4" deep in gas.

Thermowell:

Use of a thermowell is recommended when stem or bulb would be exposed to pressure, corrosive fluid or high velocity media.

Use of a thermowell permits calibration check without interrupting or shutting the process. Thermowells are available in various styles, connections, materials and sizes. Please refer to HAWK Thermowell catalogs for detailed informations.

Size:

3"(80mm), 4"(100mm),
 5"(125mm) or 6"(150mm)

Case&Ring:

Stainless Steel 304(SS316-option),
 polished bayonet ring

Stem

304 Stainless Steel, 1/4" diameter
 -Standard, 3/8" or others dia available

Dial Face

Aluminum, white background
 with black graduations and figures,
 anti-parallax to minimize the
 reading error available

Sensing Element:

Bimetallic Coil

Window:

Plain Glass-standard
 Tempered safety, Polycarbonate
 or laminated safety glass-optional

Weatherproof:

NEMA 4X/IP65 enclosure as per
 IEC 529 UNI 8896

Pointer:

Anodized aluminum with black
 finish

Accuracy:

±1.0% of span
 (Grade A to ASME B40.3)

External Adjustment:

External re-calibration on back

Scale:

°C, °F(single or dual scale)

Stem Length:

2 1/2", 4", 6", 9", 12", 15", 18"
 24" standard lengths, available
 in stem lengths up to 72" long

Connection:

Thread....1/2", 3/8", 1/4" NPT
 standard, JIS, DIN , M14*1.0
 and M20*1.5 available
 Plain
 Male swivel nut
 Sliding male swivel nut
 Female swivel nut
 Sliding female swivel nut

HAWK GAUGE CO.,LTD

Pressure Temperature Level Flow



[Http://www.hawkgauge.com](http://www.hawkgauge.com)



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Option:

Tempered safety glass lens

BBQ dial

Gray background dial

3/8" diameter stem

PTFE coated stem

Stainless steel tag with red words

Maximum and minimum pointer

Improved accuracy 0.5%(Grade 2A-ASME B40.1)

Crimped ring

Laminated safety glass lens

No logo dial

Anti-parallax dial(gray background)

5/16" diameter stem

316 stainless steel case and ring

Glycerine filled

Maximum pointer

Sharp tip

Polycarbonate lens

Customer dial

Anti-parallax dial

External mounting bracket

316 stainless steel wetted parts

Silicone filled

DIN standard

Certification of calibration

Pressure Range:

Single Scale °F		Single Scale °C		Dual Scale °C&°F	
Code	Dial Range	Code	Dial Range	Code	Dial Range
H1	-100/+100 °F	H14	-50/+100 °C	H32	-50/+100 °C&-58/+212 °F
H2	-80/+120 °F	H15	-50/+50 °C	H33	-50/+50 °C&-58/+122 °F
H3	-40/+160 °F	H16	-20/+120 °C	H34	-20/+120 °C&-4/+248 °F
H4	-20/+120 °F	H17	-20/+80 °C	H35	-20/+80 °C&-4/+176 °F
H5	0/+200 °F	H18	-20/+40 °C	H36	-20/+40 °C&-4/+104 °F
H6	0/+250 °F	H19	0/+50 °C	H37	0/+50 °C&32/+122 °F
H7	50/300 °F	H20	0/+60 °C	H38	0/+60 °C&32/+140 °F
H8	50/400 °F	H21	0/+80 °C	H39	0/+80 °C&32/+176 °F
H9	50/500 °F	H22	0/+100 °C	H40	0/+100 °C&32/+212 °F
H10	50/550 °F	H23	0/+120 °C	H41	0/+120 °C&32/+248 °F
H11	150/750 °F	H24	0/+150 °C	H42	0/+150 °C&32/+302 °F
H12	100/800 °F	H25	0/+200 °C	H43	0/+200 °C&32/+392 °F
H13	200/1000 °F	H26	0/+250 °C	H44	0/+250 °C&32/+482 °F
		H27	0/+300 °C	H45	0/+300 °C&32/+572 °F
		H28	0/+400 °C	H46	0/+400 °C&32/+752 °F
		H29	0/+450 °C	H47	0/+450 °C&32/+842 °F
		H30	0/+500 °C	H48	0/+500 °C&32/+932 °F
		H31	100/+550 °C	H49	100/+550 °C&212/+1022 °F

1. The other scales and ranges(DIN) are available in request.

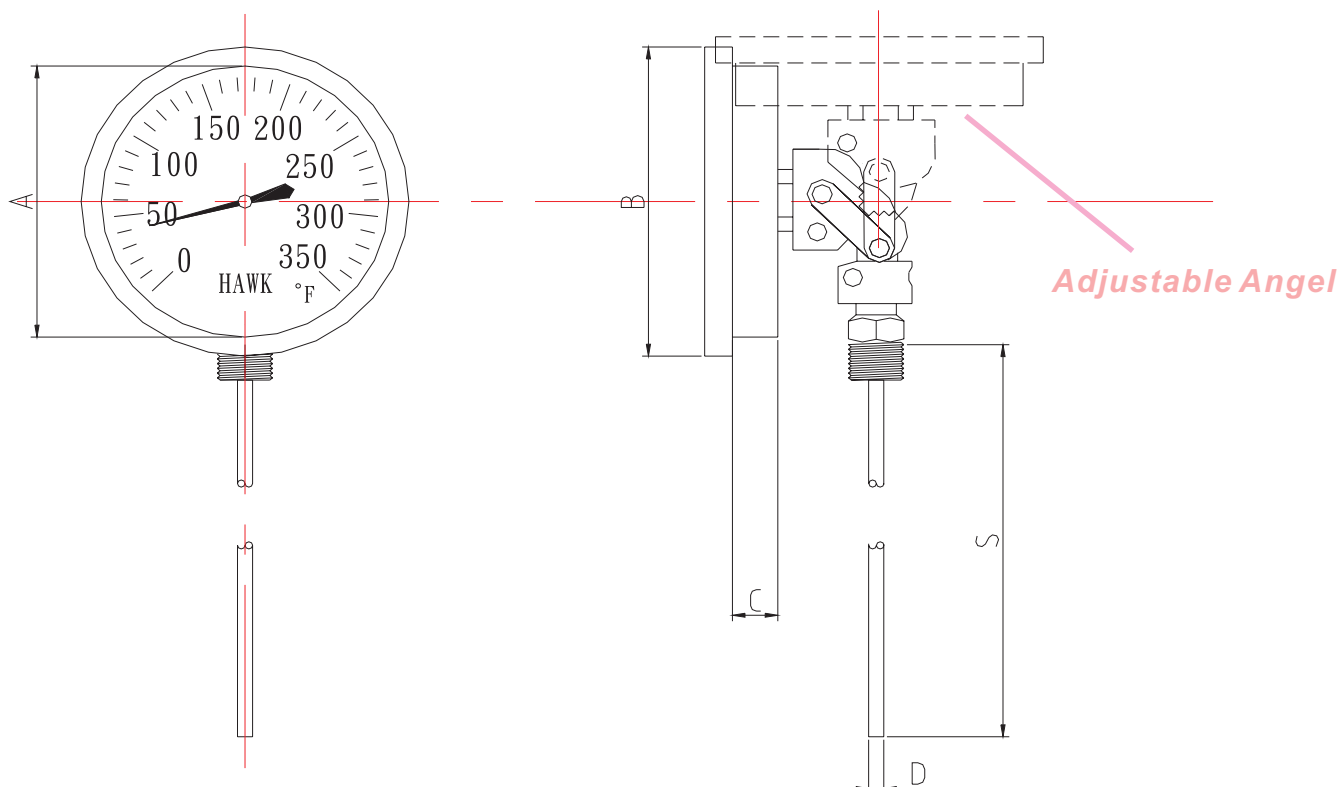
2. Not all listed ranges and scales are in stock, Consult your distributors for available.

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Dimensions:



SIZE	A	B	C	D	S
3"(80mm)	2.76" (70mm)	3.31" (84mm)	0.71" (18mm)	1/4" to 3/8" 6mm, 6.35mm, 8mm, 10mm	2 1/2"(63mm), 4"(100mm), 6"(150mm), 9"(225mm), 12"(300mm), 15"(380mm), 18"(450mm), 24"(600mm) up to 72" are standard stem lengths. The other stem lengths are available on request.
4"(100mm)	4.02" (102mm)	4.69" (119mm)	0.87" (22mm)		
5"(125mm)	4.53" (115mm)	5.16" (131mm)	0.87" (22mm)		
6"(150mm)	5.51" (140mm)	6.26" (159mm)	1.10" (28mm)		

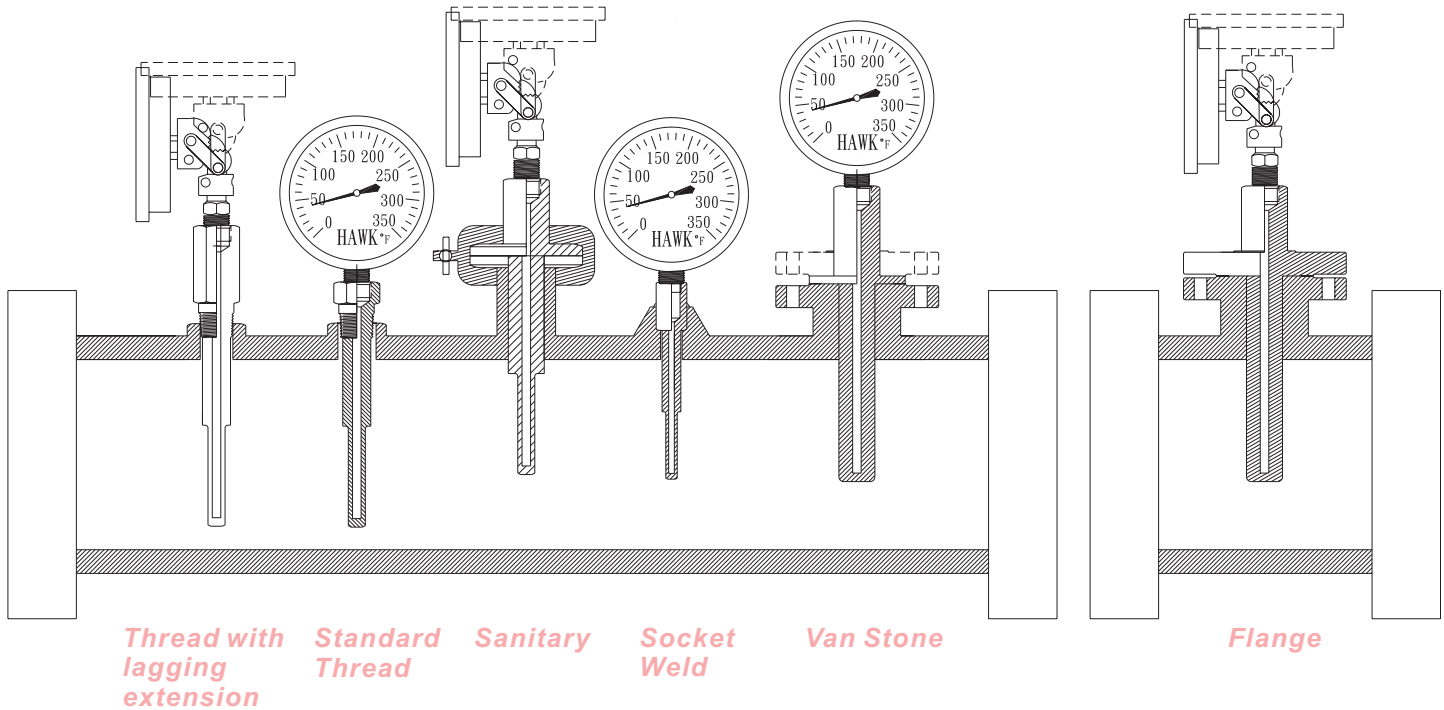
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Thermowell:

Please refer to HAWK thermowell data sheets for detailed information.



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Order Information:

Type No:	Dial Sizes:	Process Gauge:	Stem Length:	Temperature Range:	Option:
BTE -Adjustable Angel Connection	30 -3" (80mm) 40 -4" (100mm) 50 -5" (125mm) 60 -6" (150mm)	2 -Thread Male 1/2"NPT Male 3-Thread Male 3/8"NPT 5-Thread Male 3/4"NPT A-Thread Male 1/2"PT B-Thread Male 1/4"PT D-Thread Male G 1/2"(1/2"BSP) E-Thread Male G 1/4"(1/4"BSP) P-Plain No Thread S2-Swivel Nut 1/2"NPT Male SD-Swivel Nut 1/2"BSP Male X2-Rotating Female 1/2"NPT Male XD-Rotating Female 1/2"BSP Male T2-Sliding Adjustable 1/2"NPT Male TD-Sliding Adjustable 1/2"BSP Male	6M 025 -2 1/2" 040 -4" 060 -6" 090 -9" 120 -12" 150 -15" 180 -18" 240 -24" 50mm -50mm 100mm -100mm 900mm -900mm 1m -1m 10m -10m	H42 Please refer to the range table and write down the code you need. Celsius Fahrenheit	XXX PW -Polycarbonate Window LSG -Laminated Safety Glass Lens TSG -Tempered Safety Glass Lens UC -External mounting bracket APG -Anti-parallax dial(gray background) GD -Gray background dial APD -Anti-parallax dial FGL -Glycerine Filled FSL -Silicone Filled CR -Crimped Ring NLD -No logo dial CD -Customer dial BBQ -BBQ dial MP -Maximum pointer MMP -Maximum and Minimum pointer 38 -3/8" diameter stem 56 --5/16" diameter stem SW -316 stainless steel wetted parts SC -316 stainless steel case and ring

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Limited Warranty and Liability:

HAWK GAUGE CO.,LTD warrants all its mechanical instruments to be free from defects in materials and workmanship. HAWK agrees to repair or replace any thermometers if returned to our factory, transportation charges prepaid, and after which examination reveals is to be defective due to faculty workmanship or material.

This warrant should not apply to subject to the following terms and conditions:

- A). The product has not been subjected to misuse, neglect, abuse , accident, incorrect mounting, improper use or misapplication such as negligence, accident, vandalism, shock or vibration.
- B). The performance of any system of which HAWK's products are a component part.
- C). The product has not been exposed to any other service, range or environment of greater severity than that for which the products were designed.
- D). The product has not been altered or repaired by anyone except HAWK GAUGE or its authorized service agencies.
- E). The serial number or date code has not been removed, defaced or changed.
- F). The actual pressure&temperature occurring exceed the values specified for HAWK Thermometer

Unless otherwise specified in a manual or warranty card, or agree to in a writing signed by HAWK GAUGE office, HAWK Thermometer products shall be warranted for one years from the date of sale.

This warranty is in lieu of all other warranties expressed or implied, and of all obligations or liabilities on its part for damages including but not limited to consequential damages, following the use of misuse of instruments sold by it. No agent is authorized to assume for it any liability except as set forth above.

Note:

HAWK GAUGE CO.,LTD reserves the right to make product improvements and change its specifications at any time stated throughout this brochure without notification. Please contact the factory on all critical dimensions and specifications for verification.

HAWK GAUGE is not expert in the customer's technical field and therefore doesn't warrant suitability of it's product for the application selected by customer.

HAWK®

Pressure Temperature Level Flow

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