



HAWK

Since 1971

OEM Bimetal Thermometer Laboratory Testing

P-3A



- All SS construction
- Crimped ring
- Hermetically sealed case
- A rugged 90 back angle,

- rear threaded connection
- Field silicon fillable for additional dampening for extreme vibration

HAWK BL series thermometer is ideal to use for general testing applications such as laboratory, food, asphalt, soil and OEM equipments. The hermetically sealed case provides the weather and dust tight protection

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 selection of the available temperature ranges from -50°C to 550°C or equivalent in °F. The 1.25", 1.75", 2", 2 1/2", 3" smaller size gauges are used whenever space limitations exist.

Typical Application

- Laboratory Testing
- Industrial OEM equipments
- Food and beverage processing testing

Specification

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.

Size:

1 1/4"(32mm), 1 3/4"(45mm), 2"(50mm), 2 1/2"(63mm) or 3"(80mm).

Case&Ring:

Stainless Steel 304, polished crimped 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

Pointer:

Anodized aluminum with black finish

Accuracy:

±1.0% of span
(Grade A to ASME B40.3)

Scale:

°F, °C (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:

Plain
Pan Clip

Weatherproof:

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



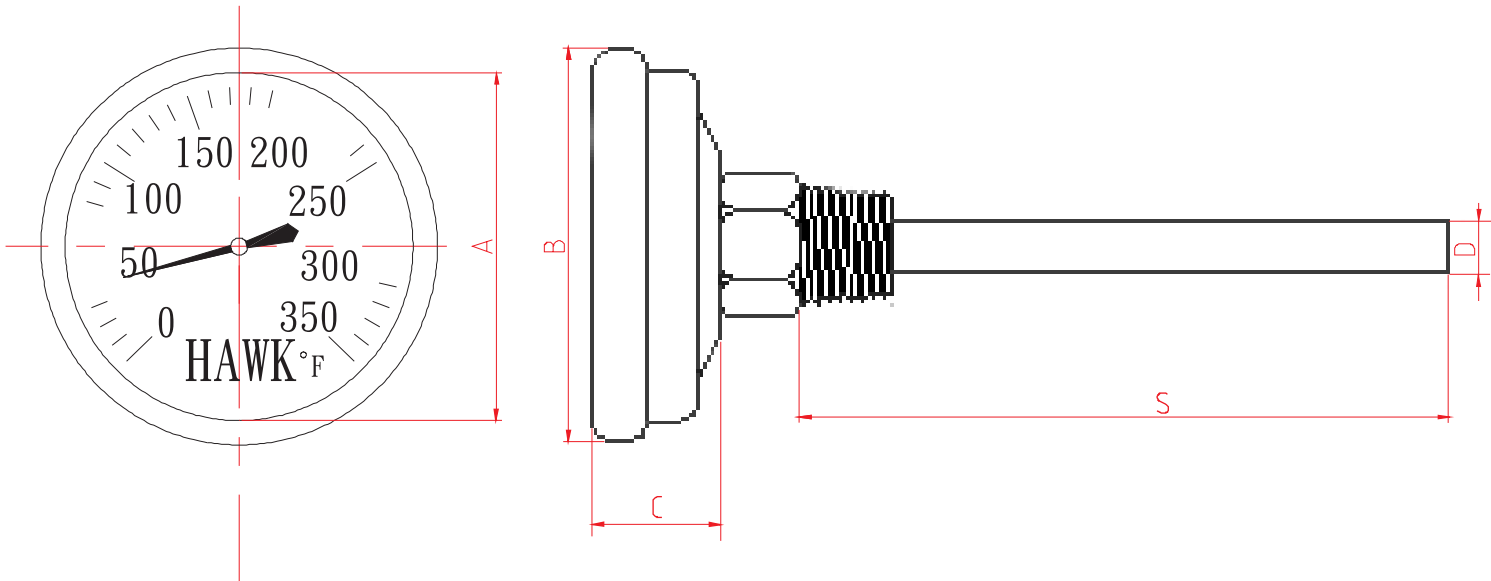
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Dimensions



Size	A	B	C	D	S
1 1/4"(32mm)	1.93" (28mm)	2.28" (33mm)	0.59" (13mm)	1/4 (standard) to 3/8" 6.35mm (standard), 6mm, 8mm, 10mm (option)	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.
1 3/4"(45mm)	2.25" (42mm)	2.60" (46mm)	0.59" (8mm)		
2"(50mm)	1.93" (49mm)	2.28" (58mm)	0.59" (15mm)		
2 1/2"(63mm)	2.25" (57mm)	2.60" (66mm)	0.59" (15mm)		
3"(80mm)	2.76" (70mm)	3.31" (84mm)	0.71" (18mm)		

Temperature Range

- The other scales and ranges(DIN) are available in request.
- Not all listed ranges and scales are in stock, consult your distributors for available.

Temperature Ranges

SINGLE SCALE				DUAL SCALE	
°C		°F		°C & °F	
Code	Range	Code	Range	Code	Range
C5	0/50	F5	0/50	D4A	-20/+40°C & -4/+104°F
C5A	-50/50	F5A	-50/50	D5	0/+50°C & 32/+122°F
C6	0/60	F6	0/60	D5A	-50/+50°C & -58/+122°F
C6A	-30/60	F6A	-40/60	D6	0/+60°C & 32/+142°F
C6B	-20/60	F7	0/70	D8	0/+80°C & 32/+176°F
C7	0/70	F7A	-40/70	D8B	-20/+80°C & -4/+176°F
C8	0/80	F8	0/80	D10	0/+100°C & 32/+212°F
C9	0/90	F9	0/90	D10A	-50/+100°C & -58/+212°F
C10	0/100	F10	0/100	D12	0/+120°C & 32/+248°F
C12	0/120	F12	0/120	D12A	-20/+120°C & -4/+248°F
C15	0/150	F15	0/150	D15	0/+150°C & 32/+302°F
C20	0/200	F20	0/200	D20	0/+200°C & 32/+392°F
C25	0/250	F25	0/250	D25	0/+250°C & 32/+482°F
C30	0/300	F30	0/300	D30	0/+300°C & 32/+572°F
C40	0/400	F40	0/400	D40	0/+400°C & 32/+752°F
C50	0/500	F50	0/500	D45	0/+450°C & 32/+842°F
C60	0/600	F60	0/600	D50	0/+500°C & 32/+932°F





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Order Information

Example:

P-3A-BL **B** **25** **0P** **006** **150** **C10** **H-ZFZT**

Style

B Back

Dial

13	1 1/4"(32mm)	17	1 3/4"(45mm)	20	2"(50mm)
25	2 1/2"(63mm)	30	3"(80mm)		

Connection Style

P Plain No Thread	C Pan Clip	L Others
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Stem Diameter

C25	1/4"	C32	5/16"	C38	3/8"	006	6mm	008	8mm	010	10mm	012	12mm
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Stem Length

2C5	2.5"	04C	4"	06C	6"	09C	9"	12C	12"	16C	16"	24C	24"
075	75mm	100	100mm	150	150mm	200	200mm	250	250mm			

Temperature Range

Please refer to the range table and write down the code you need.

Celsius Fahrenheit

Option

ZF Front Flange Case	ZT Tempered Safety Glass
ZG Glycerine Filled	ZX Oxygen Cleaning
ZP PC Lens	

Please refer to the options and write down the code which you need.

B **25** **0P** **006** **150** **C10** **H-ZFZT**

Process Connection



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Option

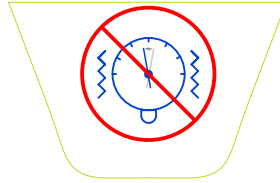


ZC Certificate of Accuracy (Factory)

ZE Certificate of Accuracy (TAF)

ZI Certificate of Accuracy (NIST)

Z1 Improved Accuracy 0.5%-mid Point (Grade 2A-ASME B40.3)



ZG Glycerine Filled

ZS Silicone Filled

ZH Halocarbon Filled

ZO Fluorolube Filled



ZX Oxygen Cleaning



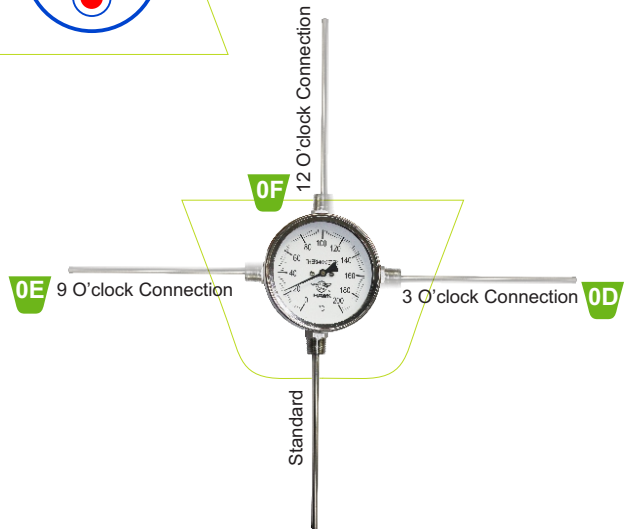
ZN NACE-MR0175-2002 Heat Treatment



ZL Laminated Safety Glass Lens

ZP Polycarbonate Lens

ZT Tempered Safety Glass Lens



Back Flange Case **ZB**



Z3 316SS Case



Front Flange Case **ZF**



TW With Jam Nut





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Option

PFA Lining Stem **TC**



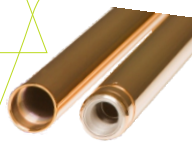
316SS Stem **TB**



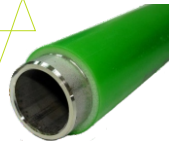
Pointed Stem **TA**



Titanium Coating Stem **TE**



PTFE Coating Stem **TD**



Red/Green Set **ZK**



Red Pointer **0A**



Stainless Steel Tag Plate **ZY**



Max/Min Registering Pointer **ZJ**



Anti Parallax with Gray Background Dial **TS**



Gray Background Dial **TQ**



Anti Parallax Dial **TR**





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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.



Data Sheet No: MKDP3ABLA1-E