## El Bimetal Thermometer

## FEATURES

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
- Maxivision ${ }^{\circledR}$ dial for precise readings (minimize parallax reading errors)
- Silicone dampened coil for reduction of pointer flutter on high vibration application and provides improved response times
- External adjustment
- Customized dial printing
- Everyangle ${ }^{T M}$ connection dial can be rotated $360^{\circ}$

TYPICAL USES

- Offshore Oil Rigs
- Chemical and Petrochemical Plants
- Water and Wastewater Pressure Control
- Pulp and Paper
- Refineries
- Power
- General Industrial
- HVAC
- Equipment Skids
- Pharmaceutical / Biotech
- Food and Beverages

| SPECIFICATIONS |  |  |
| :--- | :--- | :--- |
| Accuracy: | $\pm 1 \%$ of span ASME B40.200 (B40.3 Grade A) |  |
| Stem Length: | $21 / 2^{\prime \prime}$ to $60^{\prime \prime}$ |  |
| Sizes: | $2^{\prime \prime}, 3^{\prime \prime \prime} 5^{\prime \prime}$ |  |
| Dial Style: | Maxivision ${ }^{\text {® }}$, black figures on white background |  |
| Overtemperature | Top of Range ${ }^{\circ} \mathrm{F}$ | Max. Over Temperature |
| Limits: | up to 250 | $100 \%$ of span |
|  | $251-550$ | $50 \%$ of span |
|  | $551-1,000$ | $800^{\circ} \mathrm{F}$ |


|  | be used for intermittent service from 800 to $1,000^{\circ} \mathrm{F}$ ( 425 to $500^{\circ} \mathrm{C}$ ). Use Ashcroft Duratemp ${ }^{\circledR}$ thermometers for ranges above and below those listed above |
| :---: | :---: |
| Process Connection: | Plain, Pointed Stem, $1 / 2$ NPT, $1 / 2$ NPT Union and $1 / 2$ NPT Adjustable Union |
| Stem diameter: | 0.250", 0.375" |
| Case \& Stem: | 304 SS, 316 SS Hermetically sealed |
| Process Connection | 2": Rear |
| Location: | 3", 5": Everyangle ${ }^{\text {TM }}$, Lower , Rear |
| Pointer: | Black |
| Window: | Glass, Acrylic, Safety Glass |
| Approvals: | RoHS |
| CAUTION |  |

## El Bimetal

2", $3^{\prime \prime}, 5^{\prime \prime}$ dial sizes


## KEY BENEFTTS

- NEMA 4XIIP66 protection
- Able to perform quick and limited span adjustments
- All Welded stainless steel construction
- 5-year limited warranty


## MIN/MAX TEMPERATURE LIMITS

 Ambient$$
-40^{\circ} \mathrm{F} \text { to } 200^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C} \text { to } 93^{\circ} \mathrm{C}\right)
$$

## Data Sheet

## El Bimetal Thermometer



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| Fahrenheit Inner Range |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Inner ${ }^{\circ} \mathrm{F}$ | Outer ${ }^{\circ} \mathrm{C}$ | Restrictions |
|  | -100/100 | -70/40 |  |
|  | -80/120 | -60/50 |  |
|  | -50/200 | -40/93 |  |
|  | -50/250 | -40/120 |  |
|  | -40/120 | -40/50 |  |
|  | -40/160 | -40/70 |  |
|  | -20/120 | -30/50 |  |
|  | 0/100 | -20/40 | 4"Min for Everyangle and Lowers only |
|  | 0/150 | -20/65 |  |
|  | 0/200 | -20/93 |  |
| 흧 | 0/250 | -20/120 |  |
| 즐 | 0/300 | -20/150 |  |
| - | 0/350 | -20/170 |  |
| స్స్ | 0/500 | -20/260 |  |
|  | 20/120 | -5/50 | 4"Min for Everyangle and Lowers only |
|  | 30/130 | 0/55 | 4" Min for Everyangle and Lowers only |
|  | 30/240 | 0/115 |  |
|  | 50/300 | 10/150 |  |
|  | 50/400 | 10/200 |  |
|  | 50/550 | 10/290 |  |
|  | 0/700 | -20/370 | 4" minimum |
|  | 100/800 | 50/430 | 4" minimum |
|  | 150/750 | 65/395 | 4" minimum |
|  | 200/700 | 100/370 | 4" minimum |
|  | 200/1000 | 100/550 | 4" minimum <br> Satisfactory continuous service from $800^{\circ} \mathrm{F}$ or $426^{\circ} \mathrm{C}$. Intermittent service from $800^{\circ}$ to $1,000^{\circ} \mathrm{F}$ or $425^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ |



## Data Sheet

## El Bimetal Thermometer

|  | Single Scale Ranges |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Restrictions | ${ }^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{C}$ | Restrictions |
|  |  | $\begin{gathered} -100 / 100 \\ -80 / 120 \\ -50 / 200 \\ -50 / 250 \end{gathered}$ | $\begin{gathered} -50 / 50 \\ -50 / 180 \end{gathered}$ |  |
|  | 4" Min for Everyangle and Lowers only <br> 4" Min for Everyangle and Lowers only 4" Min for Everyangle and Lowers only | $\begin{gathered} -40 / 120 \\ -40 / 160 \\ -20 / 120 \\ 0 / 100 \\ 0 / 150 \\ 0 / 200 \\ 0 / 250 \\ 0 / 300 \\ 0 / 500 \\ 20 / 120 \\ 30 / 130 \\ 30 / 240 \\ 50 / 300 \\ 50 / 400 \\ 50 / 550 \end{gathered}$ | $\begin{gathered} -40 / 100 \\ -40 / 160 \\ -30 / 70 \\ -20 / 180 \\ -10 / 50 \\ -10 / 110 \\ 0 / 50 \\ 0 / 60 \\ 0 / 100 \\ 0 / 120 \\ 0 / 150 \\ 0 / 200 \\ 0 / 250 \\ 0 / 300 \\ 10 / 150 \end{gathered}$ | 4" Min for Everyangle and Lowers only |
|  | 4 " minimum <br> 4" minimum <br> 4" minimum <br> 4" minimum <br> 4" minimum <br> Satisfactory continuous service from $800^{\circ} \mathrm{F}$ or $426^{\circ} \mathrm{C}$. Intermittent service from $800^{\circ}$ to $1,000^{\circ} \mathrm{F}$ or $425^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ | 0/700 <br> 100/800 <br> 150/750 <br> 200/700 <br> 200/1000 | $\begin{gathered} 0 / 400 \\ 0 / 500 \\ 50 / 450 \\ \\ 100 / 500 \end{gathered}$ | 4" minimum <br> 4" minimum <br> 4" minimum <br> Satisfactory continuous service from $800^{\circ} \mathrm{F}$ or $426^{\circ} \mathrm{C}$. Intermittent service from $800^{\circ}$ to $1,000^{\circ} \mathrm{F}$ or $425^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ <br> 4" minimum <br> Satisfactory continuous service from $800^{\circ} \mathrm{F}$ or $426^{\circ} \mathrm{C}$. Intermittent service from $800^{\circ}$ to $1,000^{\circ} \mathrm{F}$ or $425^{\circ} \mathrm{C}$ to $500^{\circ} \mathrm{C}$ |

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DIMENSIONS in [ ] are millimeters
For reference only, consult Ashcroft for specific dimensional drawings

| Dial Size (Inches) | Process Connection Locations | A | B | C | D | G | H | S | NPT | Hex. | $\begin{aligned} & \text { Weight (oz) }{ }^{(1)} \\ & \text { S }-21 / 2^{\prime \prime} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | $\begin{aligned} & \text { Rear } \\ & \text { (Plain) } \end{aligned}$ | $\begin{aligned} & 2^{3 / 32} \\ & {[53]} \end{aligned}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ |  |  |  | (2) |  | 11/16 | 4112 |
| 2 | Rear (Plain, pointed stem) | $\begin{aligned} & 23 / 32 \\ & {[53]} \end{aligned}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ |  |  |  | (2) |  | 11/16 | $41 / 2$ |
| 2 | Rear (Threaded) | $\begin{aligned} & 23 / 32 \\ & {[53]} \end{aligned}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ |  |  |  | (2) | $1 / 4$ | 11/16 | 4112 |
| 3 | Rear | $\begin{aligned} & 35 / 32 \\ & {[80]} \end{aligned}$ | $1 / 2$ | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ |  |  |  | (2) | $1 / 2$ | 7/8 | 7 |
| 3 | Lower | $\begin{aligned} & 35 / 32 \\ & {[80]} \end{aligned}$ | $1^{11 / 2}$ |  | $\begin{aligned} & 25 / 8 \\ & {[67]} \end{aligned}$ |  |  | (2) | 1/2 | 7/8 | 11 |
| 3 | Everyangle ${ }^{\text {TM }}$ | $\begin{aligned} & 35 / 32 \\ & {[80]} \end{aligned}$ | 1/2 |  |  | $\begin{aligned} & 1^{21 / 32} \\ & {[42]} \end{aligned}$ | $33 / 8$ | (2) | 1/2 | 7/8 | 10 |
| 5 | Rear | $\begin{aligned} & 51 / 32 \\ & {[128]} \end{aligned}$ | 19/32 | $\begin{gathered} 3 / 8 \\ {[10]} \end{gathered}$ |  |  |  | (2) | $1 / 2$ | 7/8 | 16 |
| 5 | Lower | $\begin{aligned} & 51 / 32 \\ & {[128]} \end{aligned}$ | $\begin{gathered} 1^{15 / 16} \\ {[49]} \end{gathered}$ |  | $\begin{aligned} & 35 / 8 \\ & {[92]} \end{aligned}$ |  |  | (2) | $1 / 2$ | 7/8 | 26 |
| 5 | Everyangle ${ }^{\text {TM }}$ | $\begin{aligned} & 51 / 32 \\ & {[128]} \end{aligned}$ | 19/32 |  |  | $1^{3 / 4}$ | $\begin{gathered} 3^{21} / 32 \\ {[93]} \end{gathered}$ | (2) | 1/2 | 7/8 | 25 |

NOTES:

1. Add 1 oz. for every 2 " inches of stem length
2. "S" dimensions are $212,4,6,9,12,15,18$ and 24 " (STD.). Stem diameter is $1 / 4$ " (STD.)


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ashcroft.com info@ashcroft.com 1.800.328.8258

