

EL Series Bimetal Thermometers



FEATURES

- *Silicone liquid fill*
- *1% full span accuracy (ASME B40.3 Grade A)*
- *Maximum ambient temp. is 150°F (65°C)*
- *Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze-up.*
- *External adjustment permits zero reset from outside the case.*
- *Maxivision® dial allows readability from any angle without parallax error.*
- *Silicone coil dampening (up to 400°F) provides vibration dampening and improves response time.*
- *All-welded stainless steel construction*
- *Durable polycarbonate window*
- *Protection IP 65*
- *Five year limited warranty*



SPECIFICATIONS

| | | | | | | | | | | | | | | | | | |
|-----------------------------|---|-------------|-------------|-----------|------------------------------|------------|------------|------------|--------------|------------|---------------------|------------|-----------|------------|-------------------------|------------|---|
| Ashcroft® | EL | | | | | | | | | | | | | | | | |
| Series: | EL | | | | | | | | | | | | | | | | |
| Dial Sizes: | 3", 5" | | | | | | | | | | | | | | | | |
| Stem Length: | 2½"–24" ⁽¹⁾ | | | | | | | | | | | | | | | | |
| Case & Stem: | 304 stainless steel, hermetically sealed | | | | | | | | | | | | | | | | |
| Stem Dia: | .250" | | | | | | | | | | | | | | | | |
| Window: | Durable polycarbonate window | | | | | | | | | | | | | | | | |
| Dial: | Maxivision®, black figures on white background | | | | | | | | | | | | | | | | |
| Pointer: | Black | | | | | | | | | | | | | | | | |
| Connection: | ½ NPT and ½ NPT union | | | | | | | | | | | | | | | | |
| Connection Location: | Everyangle ⁽²⁾ , Rear | | | | | | | | | | | | | | | | |
| Ranges: | -40/160°F — 50/550°F -20/120°C — 0/300°C | | | | | | | | | | | | | | | | |
| Options: | <table border="0"> <tr> <td>Code</td> <td>Description</td> </tr> <tr> <td>C4</td> <td>Individual calibration cert.</td> </tr> <tr> <td>XCS</td> <td>Dual scale</td> </tr> <tr> <td>XDM</td> <td>Dial marking</td> </tr> <tr> <td>XNH</td> <td>Stainless steel tag</td> </tr> <tr> <td>XNN</td> <td>Paper tag</td> </tr> <tr> <td>X3B</td> <td>¾" stem dia. with ½ NPT</td> </tr> <tr> <td>X02</td> <td>¼ NPT when ½ NPT is standard⁽³⁾</td> </tr> </table> | Code | Description | C4 | Individual calibration cert. | XCS | Dual scale | XDM | Dial marking | XNH | Stainless steel tag | XNN | Paper tag | X3B | ¾" stem dia. with ½ NPT | X02 | ¼ NPT when ½ NPT is standard ⁽³⁾ |
| Code | Description | | | | | | | | | | | | | | | | |
| C4 | Individual calibration cert. | | | | | | | | | | | | | | | | |
| XCS | Dual scale | | | | | | | | | | | | | | | | |
| XDM | Dial marking | | | | | | | | | | | | | | | | |
| XNH | Stainless steel tag | | | | | | | | | | | | | | | | |
| XNN | Paper tag | | | | | | | | | | | | | | | | |
| X3B | ¾" stem dia. with ½ NPT | | | | | | | | | | | | | | | | |
| X02 | ¼ NPT when ½ NPT is standard ⁽³⁾ | | | | | | | | | | | | | | | | |

(1) Special or longer length available, consult factory

(2) Everyangle NA on 3" dial

(3) Only available on rear connection

Thermowells must be used on all pressure or velocity applications, to protect the stem of thermometer from corrosion and physical damage, and to facilitate removal of the thermometer without disturbing the process. Maximum ambient temperature is 150°F (65°C).

HOW TO ORDER

30 EL 60 R 040 0/250°F XNH

| | |
|---------------------------------------|-------|
| Dial Size: 3" Code 30 | _____ |
| Case Style: EL | _____ |
| Stem Connection: ½ NPT Code 60 | _____ |
| Stem Location: Rear Code R | _____ |
| Stem Length: 4" Code 040 | _____ |
| Range: Code 0/250°F | _____ |
| Options: Stainless steel tag | _____ |

EL Series Bimetal Thermometers

| EL Series selection table | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|------|-----------|------------|-------|------|----------|----------------------------|-----------------|-----------|-------------------|--------|-------------|------------|--------|-------------|--------|----|----|--------|---|----|
| Case | Size | Dial Code | Style Code | Stem | | | Stem Lengths Available "S" | | | Temperature Range | | | | | | | | | | | |
| | | | | Conn. | Code | Location | Code | Length (inches) | Code | °F* Fahrenheit | % Div. | Fig. Inter. | °C Celsius | % Div. | Fig. Inter. | | | | | | |
| 3" | 30 | EL | ½ NPT | 60 | Rear | R | 2½ | 025 | -40/160 | 2 | 20 | -10/110 | 2 | 10 | | | | | | | |
| | | | | | | | 4 | 040 | -20/120†† | | | -20/120 | | | | | | | | | |
| | | | | | | | 6 | 060 | 0/200 | | | 0/50†† | | | | | | | | | |
| | | | | | | | 5" | 50 | EL | ½ NPT Union | 42 | Everyangle | E | 9 | 090 | 0/250 | 2 | 20 | 10/150 | 2 | 20 |
| | | | | | | | | | | | | | | 12 | 120 | 50/300 | | | | | |
| | | | | | | | | | | | | | | 15 | 150 | 50/550 | | | | | |
| 5" | 50 | EL | ½ NPT | 60 | Rear | R | | | | | | | | 18 | 180 | 5 | 50 | 5 | 50 | | |
| | | | | | | | | | | | | | | 24 | 240 | | | | | | |

| EL Series dual scale ranges | |
|-----------------------------|---------------|
| Inner | Outer |
| -40/160°F | and -40/70°C |
| -20/120°F | and -30/50°C† |
| 0/200°F | and -20/94°C |
| 0/250°F | and -20/120°C |
| 30/130°F | and 0/55°C† |
| 50/300°F | and 10/150°C |
| 50/550°F | and 10/290°C |

| Overtemperature limits | |
|------------------------|----------------------|
| Top of Range °F | Maximum Overpressure |
| up to 160 | 100% of span |
| 160/300 | 300°F |
| 300/550 | 550°F |

*Dual scale ranges available for all standard °F ranges
 Use Ashcroft Duratemp® thermometers for ranges above and below those listed above.
 ††Minimum stem length for Everyangle is 4".

| EL Dimensions | | | | | | | | | | | |
|---------------|-----------|---------------------|-------------|------------|----------|------------|------------|------|-----|-----|---------------------------------|
| Case Series | Dial Size | Connection Location | A | B | C | G | H | S | NPT | Hex | Weight in ounces ⁽³⁾ |
| | | | | | | | | | | | S - 2½" |
| EL | 3" | Rear | 3½ (80) | 1½ (15) | ¾ (8) | - | - | -(2) | ½ | 7/8 | 7 |
| EL | 5" | Rear | 5½ (128) | 2½ (18) | ¾ (8) | - | - | -(2) | ½ | 7/8 | 16 |
| EL | 5" | Everyangle | 5½ (128) | 2½ (18) | - | 1½ (48) | 3¼ (93) | -(2) | ½ | 7/8 | 25 |

- NOTES:
 1. Figures in parenthesis () are in millimeters. All other dimensions are in inches.
 2. Standard "S" dimensions are 2½, 4, 6, 9, 12, 15, 18 and 24 inches. Standard stem diameter is ¼ inch.
 3. Add 1 oz. for every 2 inches of stem length.

DIMENSIONS

