REOTEMP’s Gas Actuated Thermometers combine advanced gas coil technology with a state-of-the-art adsorbent-(Class IV) thermal system, producing a superior temperature measurement instrument that can be fitted to a wide variety of applications. Features include high accuracy, low ambient error, no head error, and a high degree of over-range protection. The compact (3/8" diameter x 3" active length) bulb, and a wide range of case styles and thermal systems, allow great flexibility in installation. The linear dial on all REOTEMP gas thermometers provides a consistent 1% accuracy across the full span of each range. This, combined with over twenty Fahrenheit and dual ranges, from -320°F to +1200°F, provides complete coverage of all normal temperature requirements.

**Features / Benefits**

- Accuracy ± 1% Full Scale
- Can Handle a Wide Temperature Range Up to 1200°F
- Wide Variety of Wall, Panel and Direct Mounting Options
- Capillary Lengths Up to 99 Feet
- OEM Logo Dials/Custom Dials
- One Year Warranty

**Specifications**

- **Accuracy**: ±1% Full Scale, Calibration to NIST Traceable Standards
- **Ranges**: °F, °C, and Dual Scale Ranges Available from -320°F to 1200°F (-200°C to 650°C)
- **Overrange**: Minimum 10% of span above top of range, or 1300°F (704°C), whichever is less.
- **Ambient Error**: 1/4% of Span per 25°F Change in Ambient Temperature at Midscale
- **Dial Size**: 4-1/2" & 6" Dials, White with Black Markings
- **Case Material**: Stainless Steel, Polypropylene, or Aluminum
- **Case Styles**: Panel Mount, Surface Mount, or Direct (stem) Mount
- **Bulbs**: 316SS, 3/8" Diameter x 3" Active Length, Other Diameters and Lengths are Available
- **Thermal Systems**: Stainless steel capillary with stainless steel spring armor (up to 40ft). Over 40 feet, stainless steel interlock armor is standard. Direct mount stems, 316 SS, 4” to 48”.
- **Pointer**: Aluminum, Slotted Adjustable Type to Permit Zero-Set Adjustments
- **Lens**: Glass (Standard), Safety Glass and Acrylic Options Available. Aluminum style is available with glass only.
- **Immersion**: Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
- **Process Connection**: Plain Bulb, 1/2” NPT Union, 1/2” NPT sliding union on 12” bendable extension, or thermowell. Note: Thermowells must be used whenever the bulb would be exposed to pressure, fluid velocity, or corrosive media.

**Note**: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.
GAS ACTUATED THERMOMETER

HOW TO ORDER: Choose options to build a part number. For example: G45ER87L15FBXAW

G45ER

CASE STYLE

<table>
<thead>
<tr>
<th>Mount Type</th>
<th>Case Type</th>
<th>Code</th>
<th>Connection</th>
<th>Dial</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
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<td>Polypropylene Turret Mount (E)</td>
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<td>4 1/2&quot;</td>
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All dimensions are in inches.

E: Polypropylene Turret Mount

K: Stainless Steel Back Flange

D: Stainless Steel All-Angle Direct Mount

F: Aluminum Front Flange Hinge Ring

S: Stainless Steel Semi-Flush Front Flange

U: Stainless Steel "U" Clamp
Remote Reading Thermometers

GAS ACTUATED THERMOMETER

All-Angle Direct Mount with 1/2" NPT (with "D" Case Only)
- 04 = 4” Stem x 3/8” Diameter
- 06 = 6” Stem x 3/8” Diameter
- 09 = 9” Stem x 3/8” Diameter
- 07 = 12” or Longer Stem x 3/8” Diameter (specify stem length)*

Sliding Union 1/2” NPT on Bendable Extension
- 87 = 3/8” x 3” Active, 12” Bendable Extension
- 88 = 3/8” x 3” Active, 18” Bendable Extension
- 8X = 3/8” x 3” Active, Over 19” Bendable Extension (specify stem length)*

Plain Bulbs:
- 11 = Plain Bulb, 3/8” x 3” Active, +12” Rigid Extension
- 12 = Plain Bulb, 3/8” x 3” Active

*Specify stem length. Example: G45DA - OX - 12" - FB

Note: All bulbs and capillaries are 316SS.

**TEMPERATURE RANGE**

- 0X = 3/8” x 3” Active, Armored Capillary Length in ft.
- 04X = 3/8” x 3” Active, Armored Capillary Length in ft.

**Measuring your world since 1965**

Remote Reading Thermometers

GAS ACTUATED THERMOMETER

87

L15

THERMAL SYSTEM

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>THERMOMETER</th>
<th>C/W</th>
<th>A</th>
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CAPILLARY LENGTH

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**STANDARD THERMOWELLS FOR 3/8” DIAMETER ELEMENTS**

**LAGGING THERMOWELLS FOR 3/8” DIAMETER ELEMENTS**

**Accessories & Options**

- XAW = Acrylic Window*
- XSG = Safety Glass Window*
- XFR = Flush Mounting Ring for ‘E’ Case
- XBF = 1/2” NPT Compression Fitting for #11 Bulb (Attaches to 12” Extension, not Bulb)
- XCF = 1/2” NPT Compression Fitting (Attaches to Spiral Interlock Armor. For #12 Bulb Only. Requires XSI Option.)
- XSI = Spiral Interlock Armor (Required over 40 Feet)
- XVD = Vibration Dampering Feature (Dampens Vibration - Available in all Rear Connected Models)

**XTW = Thermowell (See Thermowell Table Below for Order Codes)**

- 0.25 = 180°F to 450°F & 0°C to 240°C, 1° & 1/2°
- 0.385 = 50°F to 300°F & -15°C to 120°C, 1° & 1/2°
- 0.68 = 304SS
- 0.77 = 316SS

*Not Available for Aluminum Front Flange Hinge Ring (F) Case, F Case is Glass Only

**Ranges & Minor Divisions**

- FB = -320°F to 100°F, 5°
- FE = -120°F to 120°F, 2°
- FG = -40°F to 180°F, 2°
- FH = 0°F to 120°F, 1°
- FJ = 60°F to 120°F, 1°
- FL = 20°F to 240°F, 2°
- FN = 0°F to 300°F, 5°
- F0 = 150°F to 450°F, 5°
- FP = 50°F to 550°F, 5°
- FR = 50°F to 750°F, 5°
- FT = 400°F to 1200°F, 10°
- FX = 0°F to 1000°F, 10°
- CD = -200°C to 100°C, 5°
- CI = 0°C to 120°C, 1°
- CT = 200°C to 650°C, 5°

**Dual Scale Ranges & Divisions**

- DB = -320°F to 100°F & -200°C to 40°C, 5° & 2°
- DE = -120°F to 120°F & -85°C to 50°C, 2° & 1°
- DG = -40°F to 180°F & -40°C to 80°C, 2° & 1°
- DH = 0°F to 120°F & -15°C to 50°C, 1° & 1°
- DJ = 60°F to 120°F & -15°C to 50°C, 1° & 1/2°
- DL = 20°F to 240°F & -5°C to 110°C, 2° & 1°
- DN = 0°F to 300°F & -10°C to 150°C, 5° & 1°
- D1 = 150°F to 450°F & 70°C to 230°C, 5° & 1°
- DP = 50°F to 550°F & 10°C to 290°C, 5° & 5°
- DR = 50°F to 750°F & 0°C to 400°C, 5° & 5°
- DT = 400°F to 1200°F & 200°C to 650°C, 10° & 5°

**Remote Reading Thermometers**

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