

**HANDHELD DIGITAL THERMOMETER**

The Reotemp Handheld Digital Thermometer is a multi-purpose high accuracy thermometer used to spot check various process media commonly found in the brewing and food & beverage industries. The Digital Handheld Thermometer features rugged all stainless steel construction and a built-in handle for ease of handling and extra protection.



Accuracy



Custom Logo



Made in USA



**FEATURES / BENEFITS**

- 3" Dial with Plastic (Polycarbonate) Lens
- Easy-to-Read 4 Digit LCD Display with Decimal Point
- High Accuracy Class A RTD
- Water Resistant IP67/NEMA 4X
- Rugged All Stainless Steel Construction
- Fast Response Stem

**SPECIFICATIONS**

|   |  |
|---|--|
| <b>Accuracy</b>                             | $\pm (0.72 + 0.002 \times  t - 32 )$ °F,<br>$\pm (0.40 + 0.002 \times  t )$ °C, where<br>t = temperature. Example: At 32°F<br>accuracy is $\pm 0.72$ °F.   |
| <b>Sensing Element</b>                      | RTD, Type Pt1000Ω, Class A   |
| <b>RTD Temperature Ranges</b>               | -58°F to 392°F (-50°C to 200°C) or<br>-328°F to 1112°F (-200°C to 600°C)   |
| <b>Refresh Rate</b>                         | 3 Seconds  |
| <b>Display</b>                              | 4-digit LCD, 1/2" Height   |
| <b>Display Resolution</b>                   | See Table 1  |
| <b>RFI Effect</b>                           | 1% or Less Typical   |
| <b>Temperature Effect</b>                   | <0.01% FS/°C   |
| <b>Ambient Temp. Range</b>                  | 32°F to 122°F (0°C to 50°C)  |
| <b>Storage Temp. Range</b>                  | -4°F to 158°F (-20°C to 70°C)  |
| <b>Housing Material</b>                     | Stainless Steel 316  |
| <b>Lens</b>                                 | Plastic Polycarbonate (Standard) or<br>Glass   |
| <b>Probe Material</b>                       | 304 Stainless Steel  |
| <b>Weight</b>                               | 12 oz., Varies by Configuration  |
| <b>Environmental Protection</b>             | NEMA 4X/IP67   |
| <b>Power</b>                                | 1 x 3.6V AA Battery (M12 is loop<br>powered 9-36 VDC.)   |
| <b>Battery Life</b>                         | 5 Years Minimum in Continuous Mode   |
| <b>Electronic Display Temperature Limit</b> | If the temperature of the electronics<br>in the display housing exceeds 122°F<br>(50°C), permanent damage to the<br>display will occur. A remote mount is<br>recommended for high temperature<br>applications. |

Table 1: Display Resolution

| Model                              | Range                                 | Decimal Point |
|------------------------------------|---------------------------------------|---------------|
| Standard Temp,<br>Displays Decimal | -58°F to 392°F<br>(-50°C to 200°C )   | Yes           |
| Extended Temp,<br>No Decimal       | -328°F to 1112°F<br>(-200°C to 600°C) | No            |

RTD

## HANDHELD DIGITAL THERMOMETER

**BUILD YOUR THERMOMETER:** Choose options to build a part number. For example: **BTA11B360A**

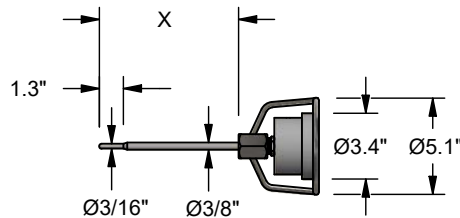
| MODEL   | STYLE                   | CONNECTION          | TEMPERATURE RANGE |                  |            | STEM DIAMETER                                     |
|---|-------------------------|---------------------|-------------------|------------------|------------|---|
| <b>BT</b>   | <b>A</b>                | <b>1</b>            | <b>1</b>          | <b>1</b>         | <b>B</b>   |   |
| <b>BT</b> = Digital Handheld Thermometer with Bezel Head and Stainless Handle | <b>A</b> = Back Connect | <b>1</b> = 1/2" NPT | Code              | Temp. Range      | Resolution | <b>B</b> = 3/8" Stem with Fast Response 3/16" Tip |
|   |                         |                     | <b>1</b>          | -58°F to 392°F   | 0.1°       |   |
|   |                         |                     | <b>2</b>          | -50°C to 200°C   | 0.1°       |   |
|   |                         |                     | <b>3</b>          | -328°F to 1112°F | 1°         |   |
|   |                         |                     | <b>4</b>          | -200°C to 600°C  | 1°         |   |

| STEM LENGTH "X"  | RTD                          | OPTIONS   |
|--|------------------------------|---|
| <b>360</b>   | <b>A</b>                     |   |
| <b>120</b> = 12" Stem<br><b>240</b> = 24" Stem<br><b>360</b> = 36" Stem<br><b>480</b> = 48" Stem<br><b>600</b> = 60" Stem<br><b>720</b> = 72" Stem<br><b>840</b> = 84" Stem<br><b>960</b> = 96" Stem<br><b>???</b> = Custom stem length in inches. | <b>A</b> = Class A 1000Ω RTD | <b>-TS</b> = Stainless Tag<br><b>-R1</b> = One Point Calibration Certification (Reotemp Chooses Points)<br><b>-R3</b> = Three Point Calibration Certification (Reotemp Chooses Points)<br><b>-CL</b> = Custom Logo Dial<br>For additional options see page 146. |

**Millimeter Stem Lengths**

**M????** = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100



RTD

## THERMOCOUPLE & RTD OPTIONS

|                              |   | Thermocouple | RTD | Digital Thermometers | Handheld Digital |
|------------------------------|---|--------------|-----|----------------------|------------------|
| <b>CERTIFICATION OPTIONS</b> |   |              |     |                      |                  |
| <b>-R1</b>                   | 1 Point Calibration Certification, Reotemp Chooses  | ✓            | ✓   | ✓                    | ✓                |
| <b>-R3</b>                   | 3 Point Calibration Certification, Reotemp Chooses  | ✓            | ✓   | ✓                    | ✓                |
| <b>-C1</b>                   | 1 Point Calibration Certification, Customer Chooses | ✓            | ✓   | ✓                    | ✓                |
| <b>-C3</b>                   | 3 Point Calibration Certification, Customer Chooses | ✓            | ✓   | ✓                    | ✓                |
| <b>-CC</b>                   | Certificate of Conformance                          | ✓            | ✓   | ✓                    | ✓                |
| <b>-CS</b>                   | NIST Calibration Sticker (No Logged Points)         | ✓            | ✓   | ✓                    | ✓                |
| <b>OTHER OPTIONS</b>         |   |              |     |                      |                  |
| <b>-VB</b>                   | Hi-Vibration  | N/A          | ✓   | ✓                    | ✓                |
| <b>-AC</b>                   | Hi-Accuracy   | N/A          | ✓   | N/A                  | N/A              |
| <b>-PS</b>                   | Pointed Stem  | ✓            | ✓   | ✓                    | ✓                |
| <b>-TF</b>                   | Teflon Coating                                      | ✓            | ✓   | ✓                    | ✓                |
| <b>-SS</b>                   | 316 SS stem   | N/A          | STD | ✓                    | ✓                |
| <b>-NL</b>                   | No Logo   | ✓            | ✓   | ✓                    | ✓                |
| <b>-HT</b>                   | Heat Transfer Compound (2 oz)                       | ✓            | ✓   | ✓                    | N/A              |
| <b>-GL</b>                   | Plain Glass Lens                                    | N/A          | N/A | ✓                    | ✓                |
| <b>-CL</b>                   | Custom Logo Dial                                    | N/A          | N/A | ✓                    | ✓                |
| <b>-BP</b>                   | Replacement Battery Pack                            | N/A          | N/A | ✓                    | ✓                |
| <b>-WD</b>                   | White Dial  | N/A          | N/A | ✓                    | ✓                |
| <b>-AS</b>                   | Allows to Fit 1-1/4-18 Industrial Thermowell        | ✓            | ✓   | ✓                    | N/A              |
| <b>TAG OPTION</b>            |   |              |     |                      |                  |
| <b>-TS</b>                   | Stainless Steel Tag (1-10 Characters)               |              |     | ✓                    |                  |
| <b>-TM</b>                   | Stainless Steel Tag (11-80 Characters)              |              |     | ✓                    |                  |
| <b>-TP</b>                   | Paper Tag   |              |     | ✓                    |                  |

|     |   |
|-----|---|
| ✓   | Indicates that the option is available with this model. |
| N/A | Indicates the option is not available with this model.  |
| STD | Indicates standard options with no additional cost.     |