



*Wahl DST550 high accuracy RTD system with built-in Minimum and Maximum recording*

## DST550 RTD Thermometer with MIN-MAX Recording

Wahl's DST550 is a wide range, high accuracy RTD thermometer with built in Minimum and Maximum Temperature recording. The system is designed for use wherever the recording of Minimum and Maximum temperatures are required. Min-Max data is recalled by simply depressing an operator interface switch.

### DST550 Display Modes



Press switch to display current temperature



Press switch again to display minimum temperature



Press switch again to display maximum temperature



Press switch and hold for reset mode



DST550



## FEATURES

### Safety & Security

- LCD Screen with easy to read 1 inch high digits. Resolution to 1/10th of 1°. Display works in ambient temperatures as low as -40° C.
- Min/ Max data is recalled by pressing the IP67 rated operator interface switch. Memory reset by holding button down for several seconds.
- Microprocessor based for flexibility.
- Low ambient temperature coefficient.
- Auto display shut-off after one minute to save battery in extreme cold.
- User selectable sample interval of 6 seconds or 60 seconds
- User selectable °F or °C
- Powered by a C cell sized Lithium Metal Battery.<sup>1</sup>
- Internal diagnostics for fault detection.
- Tamper Resistant. All adjustments require DSTCAL, our user friendly single point calibration software (sold separately).
- Available in rigid, remote, and adjustable angle configurations to meet the installation requirements of your process.

### Probes

- The programmable RO allows any initial tiny probe error to be offset in the meter.
- Quick Disconnect Turck connectors with IP68 rating available for remote probes and cables. Disconnect the meter and probe and leave your connection cable in place when doing calibration checks.
- Probes utilize Pt100, Class A 4 wire platinum RTD sensors in MgO packed MI cable.
- Sanitary probes are in compliance with 3A Sanitary Standard.

### Enclosure

- NEMA 4X Housing.
- Optional mounting bracket is available for mounting remote meters to walls, panels, pipes, etc.<sup>2</sup>
- Probes utilize Pt100, Class A 4 wire platinum RTD sensors in MgO packed MI cable.

### Certifications

- NIST Traceable Certificate of Conformance is available.



<sup>1</sup> Standard models use a single 3.6V Lithium Thionyl Chloride battery, part number DSA3062.

<sup>2</sup> Mounting bracket with grounding lug is P/N: DSA3031, and mounting bracket without grounding lug is DSA3030.

<b>DST550 SERIES RTD METER SPECIFICATIONS</b>	
	<b>DST550</b>
<b>Model</b>	MIN-MAX RTD Recording Meter with Local Display
<b>Meter Range</b>	-328° to 1472°F (-200° to 800°C)
<b>Scale</b>	User Selectable for °F or °C
<b>Meter Accuracy</b>	± 0.1°F/°C, over 1-year period (@ Tamb = 23°C ± 5°C)
<b>Meter and Probe Accuracy</b>	Temp ≤ 300°F (148.8°C) = ± 0.3°F (± 0.2°C), Temp >300°F (148.8°C) = ± 0.25% of reading
<b>Display</b>	1.0" 4-digit LCD display with icons for MIN, MAX, °F, °C, Low Battery
<b>Display Resolution</b>	0.1°F/C. 1°F above 999.9°F
<b>Sample Rate</b>	User Selectable, 6 second or 60 second
<b>Ambient Operating Environment</b>	-40° to 158°F (-40° to 70°C), 10% to 100% RH non-condensing
<b>Low Temperature Survivability</b>	-70°F (-56.7°C)
<b>Ambient Temperature Coefficient</b>	Maximum of 0.003°/°C over Ambient Operating Temperature Range from 23°C ± 5°C
<b>Sensor / Probe</b>	<ul style="list-style-type: none"> <li>• Sensor - 4-wire RTD, R0 = 100Ω, Alpha = .00385 Ω/Ω/°C</li> <li>• 304 or 316 Stainless Steel Probe construction</li> <li>• Fixed Stem or Remote probes with rugged IP68 connection system</li> </ul>
<b>Battery Power Supply</b>	1 - Lithium Thionyl Chloride "C" Battery
<b>Battery Life</b>	1 year nominal at 2 second update interval
<b>Enclosure</b>	Stainless Steel Enclosure with Polycarbonate H Frame and Window (NEMA 4X)
<b>Weight / Dimensions</b>	Dimensions: 5.3" W x 4.3" H x 2.7" D (13.5 x 10.9 x 6.9 cm). Weight: 2 lbs. (1kg)

Models	
<b>DST550</b>	MIN-MAX RTD Meter, LCD, Battery Powered Display, ("C" Battery included) -328° to 1472°F (-200° to 800°C)

Meter Options	
<b>Battery Options - if desired, see note to right</b>	Note: Battery Options - DST Meters come standard with a "C" cell battery, ready for ground shipment in the contiguous 48 states and some areas of Canada. For air shipments, either an "I" model with a "AA" battery, or "NB" model with no battery is required to avoid additional charges in compliance with transportation regulations regarding "C" cell lithium metal batteries.
International Shipping, ("AA" Battery included)	
No Battery incl. Requires local purchase of "C" battery	
<b>Options - If desired</b>	
Panel Mount, Bottom Back Stem Connected	
Quick Disconnect at Meter end, Probe end, or both ends	

Optional Accessories	
<b>DST550 Series Software, Accessories, and NIST Traceable Certificate of Conformance</b>	
<b>DSTCAL</b>	DST550 Series Calibration Software Kit (includes USB Cable, DST/USB Interface Module, and Serial Interface Cable)
<b>12360-002</b>	DST550 Series Interconnect Calibration Cable, 2 meter length - 4 Conductor
<b>13500-04</b>	DST550 Series Fixed Probe Calibration Cable
<b>DSA3030</b>	Wall Mount Bracket (for Remote Mount units)
<b>DSA3031</b>	Wall Mount Bracket (for Remote Mount units) with Grounding Lug
<b>DSA3032</b>	Security Screw Kit (Screws, washers, security wire seal, instructions. Installed when purchased with meter)
<b>DSA3033</b>	Security Wire Seals, Tamper Resistant, 10/pack, Toolless, 8", SS Wire
<b>DSA3062</b>	Spare Lithium Thionyl Chloride "C" Battery, 3.6V, for all DST meters except FM version
<b>12234-03</b>	Spare Lithium Thionyl Chloride "AA" Battery for "I" versions
	Standard Calibration & Firmware Upgrades <sup>2</sup>
	DST550 Series NIST Traceable Certificate of Conformance of System & Firmware Upgrades <sup>2</sup>
<b>13146X</b>	90 Degree Elbow <sup>3</sup> for Rigid Stem models, Specify: Back Connection (B), Left (L) or Right Side (R) Mount

<sup>2</sup> Upgrades if applicable, included in price.

<sup>3</sup> For Back, Left, or Right Side Mounting specify Code B, L, or R - Rigid Stem, under Mounting Style, 90 Degree Elbow accessory, and specify code as shown above.

Optional 90° elbow allows Back, Left or Right Angle configuration.

