



**DELUXE  
FAST RESPONSE  
WATERPROOF  
DIGITAL STEM  
THERMOMETER**

*USER'S MANUAL*



**DWS350SSQ**

*Please read this manual carefully and thoroughly  
before using this product.*

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## INTRODUCTION

Thank you for purchasing General Tools & Instruments' DWS350SSQ Deluxe Fast Response Waterproof Digital Stem Thermometer. Please read this user's manual carefully and thoroughly before using the product.

The DWS350SSQ is ideal instrument for spot-checking the temperature of food, liquids, laboratory solutions and specimens, soil, and ambient or forced air. It responds 10 times more quickly than the average stem thermometer.

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## KEY FEATURES

- Rugged, food-safe stainless steel probe
- Waterproof and dishwasher-ready
- °F/°C switch
- Min/Max memory + data hold
- Fast response
- Plastic sheath with metal pocket clip
- One button calibration

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## WHAT'S IN THE BOX

The DWS350SSQ comes in a white box along with this user's manual. An "LR44" button battery is preinstalled in the battery compartment.

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## OPERATING INSTRUCTIONS

To begin, carefully remove and discard the clear plastic film protecting the entire oval control panel. Then pull the thermometer from its sheath and press the **ON/OFF** button. Insert the tip of the probe at least 1/2 in. (13mm) into the solid or liquid material whose temperature you wish to measure. To measure the temperature of an airstream, place the tip of the probe in the middle of the stream.

At the factory, the DWS350SSQ was set to display temperature in °C. **To switch to °F**, press the °C/°F button. The thermometer will “remember” your last selection when it powers off and will resume using that unit upon restart. So if you always use the same unit, you will never have to press the °C/°F button again.

To extend battery life, the DWS350SSQ has an Auto Power Off (APO) feature that automatically powers off the thermometer if no front-panel button is pushed within any span of 10 minutes.

**To hold a measurement** (“freeze” the display), press the **HOLD** button. An **H** will appear in the upper right corner of the LCD. To release the hold and resume real-time readings, press the **HOLD** button again. The **H** will disappear.

**To display the highest temperature value** measured since the MIN/MAX memory was last reset or the thermometer was powered off, press the **MIN/MAX** button once. The value will appear for 5 seconds, along with the term **MAX** in the upper right corner of the LCD. After 5 seconds, the display will resume showing real-time temperature values.

**To display the lowest temperature value** measured since the MIN/MAX memory was last reset or the thermometer was powered off, press the **MIN/MAX** button twice. The value will appear for 5 seconds, along with the term **MIN** in the upper right corner of the LCD. After 5 seconds, the display will resume showing real-time temperature values.

**To reset the MIN/MAX memory**, press and hold the **MAX/MIN** button for >3 seconds with either **MIN** or **MAX** appearing on the LCD. This will produce a display of “- - -.\_ F” or “- - -.\_ C” for 3 seconds, after which the LCD will resume showing real-time temperature values.

Powering the thermometer off also resets the MIN/MAX memory. Resetting the MIN/MAX memory clears both values; you cannot independently reset one stored value but not the other.

### **To calibrate the DWS350SSQ:**

1. Power on the unit.
2. Insert the probe into a cup containing a slurry of crushed ice and water at least 1 in. deep. Be sure that the end of the probe is not touching the bottom of the cup.
3. Wait 10 seconds until the reading stabilizes near **32.0°F** or **0.0°C**.
4. Press and hold the **CAL.** button for at least 2 seconds. The term **CAL** will appear on the LCD.
5. Press the **CAL.** button again. **CAL** will disappear and be replaced by a real-time reading of the slurry temperature. The reading will then flash once or twice to confirm that the thermometer has been calibrated.

To avoid accidental calibration, the above procedure has been designed to work only at a temperature between 23° and 41°F (-5° and 5°C).

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## **SPECIFICATIONS**

Temperature Measurement Range:

-40° to 450°F (-40° to 232°C)

Measurement Accuracy:

±1.8°F (±1°C) from 14° to 158°F

(-10° to 70°C); ±3.6°F (±2°C) elsewhere

Measurement Resolution: 0.1° (F or C)

Response Time:

Stable (± 0.3°) reading within 8 seconds

LCD Size:

1 in. (25mm) diagonal, with 0.5 in. high digits

Auto Power Off Trigger:

10 minutes of front-panel inactivity

Probe Length: 4.7 in. (120mm)

Weight (including battery): 1 oz. (28g)

Power Source: (1) “LR44” battery (included)

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## MAINTENANCE TIPS

To replace the battery:

1. Open the battery compartment on the back of the unit by placing a coin in the slot of the cover and turning in the direction marked **OPEN**. Set the cover aside.
  2. Install a fresh “LR44” or “AG13” battery in the compartment so its rounded side faces down and its flat side (with “+” and “LR44” or “AG13” markings) faces up. The battery does not snap into place, so do not apply downward pressure.
  3. Place the cover back over the battery.
  4. Place the coin back in the slot of the cover and turn in the direction marked **CLOSE**. The pressure of the cover is what holds the battery in place.
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## WARRANTY INFORMATION

General Tools & Instruments’ (General’s) DWS350SSQ Deluxe Fast Response Waterproof Digital Stem Thermometer is warranted to the original purchaser to be free from defects in material and workmanship for a period of one year. Subject to certain restrictions, General will repair or replace this instrument if, after examination, the company determines it to be defective in material or workmanship. The warranty period begins on the date of purchase. You are encouraged to register your product online. General will extend your warranty an additional 60 days if you register at [www.generaltools.com/ProductRegistry](http://www.generaltools.com/ProductRegistry).

This limited warranty does not apply to damages that General determines to be from an attempted repair by non-authorized personnel or misuse, alterations, normal wear and tear, or accidental damage. The defective unit must be returned to General Tools & Instruments or to a General-authorized service center, freight prepaid and insured.

Register now at [www.generaltools.com/ProductRegistry](http://www.generaltools.com/ProductRegistry) to receive a 60-day extension to your warranty.

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## **RETURN FOR REPAIR POLICY**

Every effort has been made to provide you with a reliable product of superior quality. However, in the event your instrument requires repair, please contact our Customer Service to obtain an RGA (Return Goods Authorization) number before forwarding the unit via prepaid freight to the attention of our Service Center at this address:

General Tools & Instruments  
80 White Street  
New York, NY 10013  
212-431-6100

Remember to include a copy of your proof of purchase, your return address, and your phone number and/or e-mail address.





# **Specialty Tools & Instruments**

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## **GENERAL TOOLS & INSTRUMENTS**

80 White Street

New York, NY 10013-3567

PHONE (212) 431-6100

FAX (212) 431-6499

TOLL FREE (800) 697-8665

e-mail: [sales@generaltools.com](mailto:sales@generaltools.com)

[www.generaltools.com](http://www.generaltools.com)

DWS350SSQ User's Manual

Specifications subject to change without notice

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