User Manual

Test Equipment Depot
99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431
1-800-517-8431

Visit us at www.TestEquipmentDepot.com

⟨D⟩ DIGI-SENSE.

Pen-Style Pocket Thermometer

with NIST-Traceable Calibration

Model 20250-33

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THE STANDARD IN PRECISION MEASUREMENT

Introduction

The Digi-Sense Pen-Style Pocket Thermometer (Model 20250-33) offers fast response and laboratory accuracy with 0.1°C/0.1°F resolution over the entire measurement range. Advanced features include °F/°C unit selection, Min/Max/Hold, and automatic power-off. The instrument is fully tested and calibrated to NIST-traceable standards. Careful use of this meter will provide years of reliable service.

Unpacking

Check individual parts against the list of items below. If anything is missing or damaged, please contact your instrument supplier immediately.
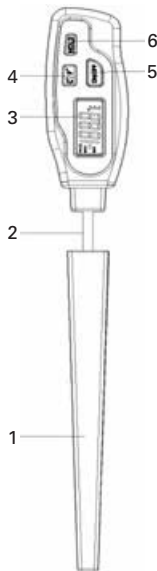
1. Pocket thermometer

2. One LR44 (1.5V) battery, installed

3. Protective sleeve

4. User manual

5. NIST-traceable calibration report with data

Key Features

• User-selectable °C or °F units

• Min/Max/Hold function

• Automatic power-off to conserve battery life

• Rubberized protective housing

Meter Description

1. Protective cover
2. Temperature probe
3. LCD
4. **°C/°F** button
5. **Power ON/OFF** button
6. **HOLD/MAX/MIN** button

Setup and Operation

Power

Remove the thermometer from its protective sleeve and press the **Power ON/OFF** button to turn thermometer on.

Taking Measurements

1. For best results, insert the stem of the thermometer at least ½ inch into the testing area.
2. When the thermometer is turned on, the LCD will show "0.0°C" or "32.0°F" for two seconds. Then the actual temperature will display. To save battery life, the thermometer will automatically turn off after approximately 20 minutes.

Changing Unit of Measure

Change the temperature unit from °C to °F by pressing the **°C/°F** button.

Setup and Operation (continued)

Hold Function

1. Press the **HOLD** button once. "Hold" will appear on the display.

2. Press the **HOLD** button three times to exit the hold function.

Viewing the Min and Max Readings

The MIN/MAX mode allows the user to view only the lowest **(MIN)** or highest **(MAX)** reading.

1. Press the **HOLD** button twice and the **MAX** icon appears on the display. The LCD is now displaying the highest temperature reading.

2. Press the **HOLD** button once more and the **MIN** icon appear on the display. The LCD is now displaying the lowest temperature reading.

3. Press the **HOLD** button once more to exit the **MIN/MAX** mode.

Note: While powering on the thermometer each time, it restarts recording Minimum and Maximum, and the recordings don't stop until the meter is turned off.

<u>Specifications</u>

Temperature	Full usable range: –40 to 482°F (–40 to 250°C) NIST certified range: 32 to 300°F (0 to 150°C)
Resolution	0.1°F/C
Accuracy	1.5% ±4°F (±2°C) full scale

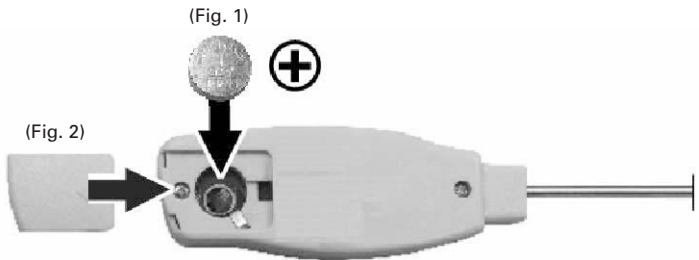|	
Display	LCD
Response time	20 seconds
Auto power-off	Unit shuts off automatically after 20 minutes to preserve battery life
Weight	1.5 oz (42.5 g)
Dimensions (L x W x H)	8¼" x 1¼" x ¾" (211 x 32 x 19 mm)
Power	One LR44 (1.5V) battery

Maintenance, Recalibration, and Repair

Cleaning and Storage

- Thermometer should be cleaned with a damp cloth and mild detergent when necessary. Do not use solvents or abrasives.

- Store the meter in an area with moderate temperature and humidity.

Battery Replacement

If the battery power falls low, open the battery cover (Fig. 2) and replace the LR44 battery (Fig. 1). Close the cover securely.

It is recommended that Digi-Sense products are calibrated **annually** to ensure proper function and accurate measurements; however, your quality system or regulatory body may require more frequent calibrations. To schedule your recalibration, please contact InnoCal, an ISO 17025 calibration laboratory accredited by A2LA.

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Phone: 1-866-INNOCAL (1-866-466-6225)
Fax: 1-847-327-2993
E-mail: sales@innocalsolutions.com
Web: InnoCalSolutions.com

For Product and Ordering Information, Contact:

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99 Washington Street
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