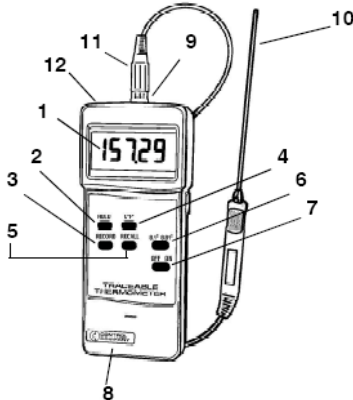


# RTD Platinum Thermometer Instructions

## SPECIFICATIONS

Display: LCD, 1/2" digits  
 Meter Range: -328 to 1472 °F (-200 to 800 °C)  
 Probe Range: -58 to 752 °F (-50 to 400 °C)  
 Accuracy: ±(0.1% + 0.2°) below 200° and  
 ±(0.15% + 0.5°)  
 Power: 9V battery  
 Size: 7 x 3 x 1-1/4 inches  
 Accessories: Platinum probe, battery

FIGURE 1.



## Description:

- |                 |                    |                            |
|-----------------|--------------------|----------------------------|
| 1. Display      | 5. Recall Button   | 9. Input Socket            |
| 2. Hold Button  | 6. 0.1/0.01 Button | 10. PT 100 ohm Temp. Probe |
| 3. Record       | 7. Power Switch    | 11. Probe Plug             |
| 4. °C/°F Switch | 8. Battery Cover   | 12. RS-232 output terminal |

## OPERATION

- Turn on the unit by sliding power switch (7, Fig. 1) to "ON" position.
- Press the °F/°C Button to select desired temperature unit (4, Fig. 1).
- Select desired resolution by pressing 0.1/0.01 Button (6, Fig. 1).
- Connect the Probe Plug (11, Fig. 1) to the input Socket (9, Fig. 1).  
The display will show the temperature from the tip of the probe.
- Press the HOLD button (2, Fig. 1) once to "freeze" the display at the current temperature reading. "HOLD" appears on the upper portion of the display indicating that the unit is in hold mode. Press the HOLD button again to release the reading.
- The data record function captures the maximum and minimum readings. To begin, press the RECORD button (3, Fig. 1) once. "RECORD" appears in the upper portion of the display.
- While in record mode, press the RECALL button (5, Fig. 1) once. "MAX" appears on the display indicating the temperature shown is the maximum value recorded.
- Press the RECALL button a second time, and "MIN" appears on the display, indicating that this is minimum value recorded.
- To exit the record mode, press the RECORD button once again.  
The display will show the current reading.

## RS-232 PC SERIAL INTERFACE

This unit features RS-232 output. An RS-232 OUTPUT SOCKET (12, Fig. 1) is located on top of the unit. To utilize this feature, connect unit to a PC with the Data Acquisition Accessory (see "ACCESSORIES" section).


Data is displayed in a 16-digit stream: D15 through D0. Each digit indicates the following:

- D0 end word
- D1 to D8 Display Reading: D1=LSD, D8=MSD
- D9 Decimal Point (DP): 0=no DP, 1= 1 DP, 2= 2 DP, 3 = 3DP
- D10 Reading Polarity for the display: 0 = "+", 1 = "-"
- D11/D12 Annunciator for Display: 01=°C, 02=°F
- D13 1
- D14 4
- D15 start word

## ALL OPERATIONAL DIFFICULTIES

If this thermometer does not function properly for any reason, please properly replace the battery with a new 9V battery (see Battery section, below). Low battery power can occasionally cause any number of "apparent" operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

## BATTERY REPLACEMENT

When  appears on the display, erratic readings appear,

there is a faint display or no display—these are all indicators that the battery is low and needs to be replaced. To replace the battery, remove the battery cover located on the back of the unit (8, Fig. 1) by using a coin to slide the cover away from the unit. Insert a new 9V battery (alkaline). Incorrectly installed batteries may damage electronics. Replace the battery cover.

## ACCESSORIES

**Bonus Free Disk:** This demonstration disk shows the data acquisition capabilities of this digital product when connected to a computer. See **Product 4136** below to order complete **Data Acquisition System**.

### Product 4138 Easy-Use Accessory Adaptor 115 VAC

### Product 4136 Data Acquisition System Accessory

Complete DAS-3 Data Acquisition System captures, displays, and stores readings on any IBM-compatible PC. Information can be imported into databases. Includes 3-1/2" diskette and 5' serial cable with D9F plug.

### Product 4325 Data Logger

Complete DAS-4 System captures and stores up to 8000 bytes (over 1000 readings) from all meters. Reading may be taken at intervals from 1 second to 99 hours. Stored readings may be downloaded to any PC and viewed. Can be read "as is" or imported to spreadsheets, databases, and statistical programs. Supplied with 36-inch serial cable with D9F computer plug, 3-1/2" inch diskette (Windows 95, Windows 98), and four AA alkaline batteries. Size is 5 x 3 x 1 inches. Weight is 7 ounces.

### Product 4326 Accessory Adaptor 115 VAC for Data Logger

### Product 4012 Battery Replacement

## WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

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