

# Digital Thermometer CC3312B

UL Listed (120VAc/Dc model only) NSF Listed IP 65 Rated Face

The CC3312B microprocessor thermometer features an LED display and fully programmable internal components with temperature and fault alarms. The CC3312B is one of our more advanced digital thermometers, its internal power transformer allows for direct wiring to main power for easy installation. This digital thermometer can be used in food and refrigerating fields for hot and cold monitoring.



Sample Product Photo

- Waterproof Front
- Plug-In Internal Power Source
- Programmable High and Low Temp Alarms and Defrost Detection
- Sensor Cable Length Customizable
- Back °F/°C Unit Conversion Switch
- **NEW!** Upgraded Internal Components for an Expanded Operating Temp Range

**Application Fields: General Food Equipment, Refrigeration**

## Specifications

Dimensions	2.6"W x 1.22"H x 0.88"D
Case	Polycarbonate Plastic in <b>Black, White, or Grey</b>
Display	1/2" Tall LED Characters in <b>Red or White</b>
Power Source	Plug-in 120VAc/Dc or 12VAc/Dc
Operating Range	-4°F to 180°F (-20°C to 82°C)
Accuracy	± 2°F or ± 1°C
Sensor Bulb	Plated Sleeve NTC Bulb Ø 0.25" x 1.818"
Cable Length*	<b>Black PVC</b> Min ~ 60" (1.5m) Max ~ 590" (15m)

\*For custom sensor cable lengths please contact [service@howe-technology.com](mailto:service@howe-technology.com)

## Sensor Type Options

NTC

PTC

## Update Frequencies

1 second

1 minute

3 minutes

## Measuring Ranges

-40°F to 230°F  
(-40°C to 110°C)

32°F to 392°F  
(0°C to 200°C)

50°F to 300°F  
(10°C to 150°C)

-58°F to 252°F  
(-50°C to 122°C)

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## Installation

The instrument is equipped with fast-on type spade terminals with probe connections separated from the power supply connections.

To install the instrument proceed as follows:

**Step 1:** Make a rectangular hole in the panel.

**Step 2:** Click the Snap-Clamps into place and tighten the thermometer to the panel.

**Step 3:** Set the temperature display unit through the switch.

**Step 4:** Route the cables to the desired locations inside the case and connect the temperature sensor and power cord mount to the quick connector on the thermometer.

**Note:** Please confirm the power supply voltage and thermometer required voltage is the same before switching on the power.

## Alarm Codes

MESSAGE	CAUSE
LL	Probing temperature exceeds the minimum temperature
HH	Probing temperature exceeds the maximum temperature
EE	Sensor is short or open circuit

## Warnings

- Do not open the instrument.
- Disconnect all electrical connections before any kind of maintenance.
- Ensure the wires for probes and the power supply are separated and far enough from each other, with no crossing and coiling.

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## Sample Technical Drawings

