

Product instruction sheet



High precision, waterproof test thermometer

(Ref: 38/600/0)

Measurement for life.



1. General description

This high precision waterproof test thermometer is an accurate digital probe instrument featuring a flexible cable and stainless steel probe. With functions including a high/low temperature alarm and max min recording, this handheld waterproof thermometer can be used in numerous situations, industries and environment and is HACCP compliant.

This instrument is supplied complete with 2 point calibration certificate.

2. Product contents

- High precision, waterproof thermometer
- 2 point calibration certificate
- Instruction manual
- 2pcs x CR2032 lithium batteries

3. Before you start

- Please read this instruction manual carefully.
The information in this manual will help you to familiarise yourself with your new device, functions and parts and operation.
- Carefully following the instructions in this manual will prevent damage to your instrument and loss of your statutory rights arising from defects due to incorrect use.
- We shall not be liable for any damage occurring as a result of the user not following these instructions. Likewise, we take no responsibility for any incorrect readings and for any consequences which may result from them.
- Please take particular note of the safety advice!
- Please keep this instruction manual for future reference.

4. Basic operation

- 4.1. Remove protective film cover from LCD.
- 4.2. ON/OFF and Backlight:
Press [ON/OFF] once to power on.
While the unit is on Press [ON/OFF] to enable the backlight for 3 seconds (this will also mute any active alarm).
- 4.3. °C/°F :
Press [°C/°F] button to select the desired temperature unit.
- 4.4. Min/Max:
Press [MIN/MAX] once to display maximum recorded temperature. Press again to display minimum recorded temperature. Press for a third time to return to the current temperature.
- 4.5. CAL:
Calibration – see Calibration Procedure for more info.
- 4.6. + & -:
Use these two buttons to set the alarm. See Setting Alarm section for more info.
- 4.7. Press [power on/off] key for 4 seconds to turn off the meter after use.

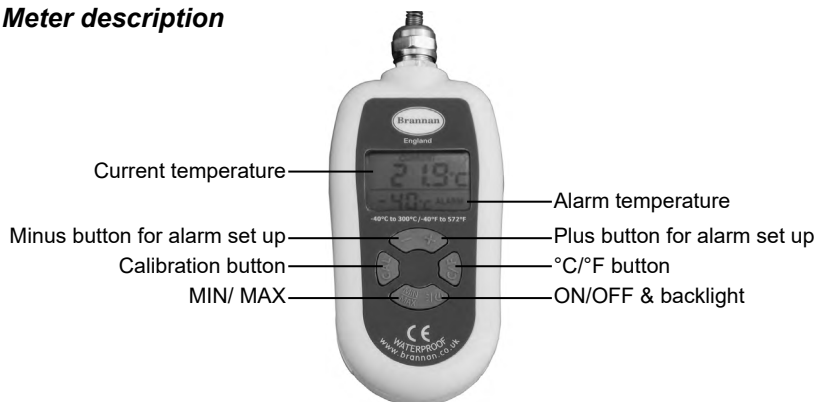
Note:

- Remove batteries during long periods of inactivity to avoid battery leakage.
- Ensure the wind enters into the propeller from the front side, i.e. LCD should face the user.

5. Product features

- High precision, waterproof thermometer
- Waterproof to IP68
- Supplied with 2 point calibration certificate (at 0°C and 100°C)
- High/low temperature alarm
- HACCP compliant
- Calibration function
- Max/min recording

6. Meter description



7. Product specifications

Measurement range	-40 to +300°C & -40 to 572°F
Ambient operating temperature	-10 to +50°C/F
Accuracy	+/- 0.5°C (-10°C to 100°C), +/- 1°C (-20°C to -10°C & 100°C to 150°C), Otherwise: +/-2°C
Resolution	0.1°C (0.1°F)
LCD size	32mm X 20mm
Response	4 seconds
Probe	Ø4mm x 150mm
Battery	2 x CR2032 3V button batteries
Auto-off	After 1 hour of inactivity
Waterproof	IP68
Body material	ABS material

8. Alarm

The alarm can be used as either a heat up alarm, or cool down alarm.

8.1. Press “+” or “-” button to increase and decrease the alarm to reach the desired temperature.

When the current temperature meets or exceeds the alarm value the alarm will beep.

8.2. Press [ON/OFF] once to turn off the alarm beep.

If the alarm is not needed it can be hidden:

8.3. Press “-” button until the alarm value is equal to -40°C

8.4. Press “-” button one more time, the alarm display will be hidden as shown below



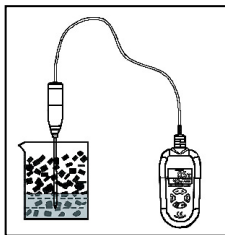
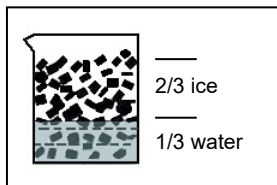
9. To replace batteries

- 9.1. Insert a thin coin into the slot on top of the battery door and turn it counterclockwise until the cover is aligned with the unlocked padlock symbol.
- 9.2. Remove the cover and replace the 2pcs xCR2032 3V button batteries.
The batteries sit directly on top of one another. Make sure the O-ring does not fall out.
- 9.3. Replace the battery cover clockwise until it is aligned with the locked padlock symbol.

10. Calibration procedure

This instrument has been calibrated during the manufacturing process. Only attempt this procedure if the thermometer readings appear incorrect. The below procedure can be used for self-calibration, however we would recommend sending the thermometer to an accredited temperature calibration laboratory to ensure it maintains its accuracy.

- 10.1 Fill a container that is at least 150mm deep to the top with ice (crushed ice is preferred as it leaves fewer air gaps).
- 10.2 Slowly add cold water to fill the spaces between the ice. Fill until the water is approx. 1/3 full. Let the mixture sit for 2 minutes to allow the temperature of the water to settle. If the ice starts to float pour out some water and add more ice. Water below the ice will not be at 0°C(32°F).
- 10.3 Insert your thermometer probe by placing the probe tip in the center of the container. Ensure at least 50mm of the probe is fully submerged in the water, but not in contact with the floor of the container, and stir for 20seconds.
- 10.4 Keep probe tip completely submerged, press and hold "CAL" button for 5 seconds until "CAL" appears on the LCD display, then release.
- 10.5 Calibration is complete when display automatically returns to normal operation mode.



NOTE: The self calibration function will only work when the thermometer reading at 0°C is between -0.9°C and +0.9°C. Otherwise an ERRO message will appear. There are 2 reasons for this:

- 1) The ice container has not been created correctly to 0°C.
- 2) The thermometer has drifted out of accuracy by +/- 1°C or more. This signifies damage to the thermometer, and it cannot be repaired.

11. Error messages



Low battery



Calibration procedure
not available
(see section 10 above
for more details)



Temp. exceeds the
min. value, -40°C,
or sensor has
disconnected



Temp. exceeds the
max. value, +300°C,
or sensor has
short circuited



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