protech

Dual Display Digital Thermometer
for Fridge/Freezer with Dual Probes   QM-7322

FEATURES
- Dual display for fridge and freezer
- Maximum and minimum reading memories
- Light / buzzer alarm indication
- Programmable alarm limits
- Alarm duration indication
- °C / °F exchange
- Low battery indication
- Flip out desk stand
- Magnetic attachment

SPECIFICATION

Measuring range	-40 ~ 70°C / -40 ~ 158°F
Display accuracy	±1°C
Display resolution	0.1°
Default alarm limits	Fridge (*): alarm on if reading out of 0 ~ 8°C / 32 ~ 46°F Freezer (***): alarm on if reading higher than -18°C / 0.4°F
Display reading update	10 seconds
Programmable alarm limit resolution	1°
Alarm duration counter	99 hours and 59 minutes
Battery	1.5 volt, type AAA or equivalent x2 pieces
Probe cord length	1,000 mm
Battery life	About 10,000 hours in continuous operation
Display size	90(W) x 16(H) mm
Product size	135(W) x 45(H) x 23(D) mm
Accessories	1) 1.5 volt, type AAA battery x2 pieces 2) Suction cup x2 pieces

INSTALLATION
1. Open battery cover.
2. Install batteries with correct polarity positioning.
3. Close battery cover.
4. Select the temperature unit by sliding the °C/°F switch on the back.
5. Fully extend the probe wires.
6. Attach the thermometer to a suitable place outside the fridge / freezer.
7. Clean the desired positions at which the probes will be attached inside the fridge and freezer.
8. Press the suction cup with the probe marked (*) firmly against the cleaned position inside the fridge.
9. Press the suction cup with the probe marked (***) firmly against the cleaned position inside the freezer.
10. Peel off display protective sheet.

OPERATION
TEMPERATURE DISPLAY
The left display (indicated by T1 and *) will show the current temperature of the fridge and the right display (indicated by T2 and ***) will show the current temperature of freezer.

MAXIMUM/MINIMUM READING MEMORIES
1. Press [&MAX] to display the maximum and minimum readings of the fridge (indicated by T1 and *)
2. Press the button again to display the maximum and minimum readings of the freezer (indicated by T2 and ***).
3. Press the button once more to return to normal display.

RESET MAXIMUM AND MINIMUM READING MEMORIES
1. During displaying the maximum or minimum reading, press [C] will reset the memory to current reading.
2. Reset the memories once before taking the new maximum and minimum readings.

ALARM DURATION INDICATION
1. Press [☼/♫] to select light / buzzer or both alarm indication.
2. If the reading is out of the default alarm limit, the reading, ⚠ and the red light will be flashing and the buzzer will also sound if it is selected.
3. Press any button will stop the buzzer sounding but the display reading, and the red light will still be flashing until the reading is within the default alarm limit.
4. If the alarm period is over 30 minutes then the thermometer will start to count the alarm time including those 30 minutes. The reading, ⚠ and the red light will stop flashing even if the reading is out of the alarm limit.
5. Press [⚠] to select the reading with ⚠. The left display will show the maximum measured value and the right display will show the alarm time last for.

CLEAR ALARM DURATION INDICATION
1. Press [OFF] to disable alarm function.
2. Press [⚠] to select the reading with ⚠.
3. Press [C] to clear the alarm time.

PROGRAMMABLE ALARM LIMITS
1. Press and hold [SET] for about 3 seconds to enter the alarm limit setting mode.
2. The high (HI) limit value of fridge (indicated by T1 and *) will be flashing.
3. Press [↑] to set the desired value*.
4. Press [SET] to confirm the input value and then the low (Lo) limit value of fridge will be flashing.
5. Press [↑] to set the desired value*
6. Press [SET] to confirm the input value and then the high (HI) limit value of freezer (indicated by T2 and ***) will be flashing.
7. Press [↑] to set the desired value*.
8. Press [SET] to confirm the input value and then the low (Lo) limit value of freezer will be flashing.
9. Press [↑] to set the desired value*.
10. Press [SET] to confirm the input value and then return to normal display.
* Holding down [↑] will increase and recycle the value automatically.

LOW BATTERY INDICATION
If the low battery symbol "▭ " appears then replace the batteries with the same type new batteries.

NOTE
1. If the unit is not in use for a long period of time then remove batteries from the unit to avoid battery leakage.
2. If any one of the probes (T1/* or T2/***) is not in use then ignore the related display reading.
3. The Display does not have back light.

ERROR SYMBOLS

Symbol	Description	Action required
▭	Low battery voltage	Replace the batteries with the same type
LLL	1) Sensor open circuit 2) The reading is out of lower limit (-50°C)	1) Return the thermometer for repair 2) Keep the measurement above lower limit
HHH	1) Sensor short circuit 2) The reading is out of upper limit (70°C)	1) Return the thermometer for repair 2) Keep the measurement below upper limit