**McKesson**

Refrigerator/Freezer Thermometer

**DATA LOGGER SINGLE PROBE**

For use with MFR # MCK80021P.

### FEATURES
- High accuracy
- 24 million readings / Max 170 files (.csv)
- Internal and external sensors reading display
- Minimum and maximum reading memories
- Low / high alarm limit setting
- Flashing light alarm indicator
- °C / °F Scale
- Real time display
- Waterproof external sensor
- Low battery indication
- Removable SD memory card or USB interface for data retrieval
- Optional external power supply
- Flip out desk stand
- NIST compliant

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display accuracy</td>
<td>±0.5°C / ±0.9°F over full range</td>
</tr>
<tr>
<td>Display resolution</td>
<td>0.1°</td>
</tr>
<tr>
<td>Displaying read update</td>
<td>10 seconds</td>
</tr>
<tr>
<td>Memory capacity</td>
<td>Removable 20 micro SD card / Max 170 files (.csv)</td>
</tr>
<tr>
<td>Data logging interval</td>
<td>Once per minute to once per 720 minutes user option</td>
</tr>
<tr>
<td>Alarm limit setting resolution</td>
<td>0.1°</td>
</tr>
<tr>
<td>Default alarm value</td>
<td>Low: 0°C, High: 50°C</td>
</tr>
<tr>
<td>Time accuracy</td>
<td>±1 second per day</td>
</tr>
<tr>
<td>Time display format</td>
<td>12 / 24 hours format user option</td>
</tr>
<tr>
<td>Effective calendar period</td>
<td>2014 - 2099</td>
</tr>
<tr>
<td>Battery</td>
<td>1.5 volt, type AA or equivalent x3 pieces</td>
</tr>
<tr>
<td>Battery life</td>
<td>About 2000 hours in continuous operation with no alarm triggered</td>
</tr>
<tr>
<td>Working ambient temperature</td>
<td>0 - 50°C (32 - 122°F)</td>
</tr>
<tr>
<td>Display size</td>
<td>70(W) x 64(H) mm</td>
</tr>
<tr>
<td>External sensor cable length</td>
<td>2000 mm</td>
</tr>
<tr>
<td>External sensor bottle size</td>
<td>19.5[Φ] x 40(H) mm PE bottle</td>
</tr>
<tr>
<td>Product size</td>
<td>94(W) x 110(H) x 24(T) mm</td>
</tr>
<tr>
<td>+Accessories</td>
<td>3.15 volt, type AA battery, 1 External bottle sensor 1 Mini USB cable 1000mm length, 1 100-240V power adapter and 1 Micro SD card USB adapter</td>
</tr>
</tbody>
</table>

### INSTALLATION
1. Unpack the unit and connect the bottle probe.
2. Open the battery door and pull out the battery insulation strip.
3. Peel off display protective sheet.
4. Put the bottle sensor inside the fridge or freezer.

### SET TEMPERATURE SCALE
Slide [°C/°F] switch to the desired temperature scale.

### MIND / MAXIMUM READING MEMORY
1. Press [MIN/MAX] to display minimum recorded reading.
2. Press the button again to display maximum recorded reading.
3. Press the button once more to display normally.
4. To reset the memory, Press and hold the button until two bars "---" are displayed.
5. Always reset the memory once before taking new readings.

### DATE AND TIME SETTING
1. Press [SET] to confirm hour format and start year setting. The last two digits of the year will be flashing (Default is "14").
2. Press [SET] to confirm year and begin month setting. The month digit will be flashing (Default is "1").
4. Press [SET] to confirm month and start date setting. The date digit will be flashing (Default is "1").
5. Press [SET] or [E] to set the current date.
6. Press [SET] to confirm date and begin hour setting. The hour digit(s) will be flashing.
8. Press [SET] to confirm hour and begin minute setting. The minute digits will be flashing.
10. Press [SET] to confirm minute and finish the date and time setting.

### LOW / HIGH ALARM LIMIT AND DATA LOGGING INTERVAL SETTING
1. Press and hold [SET] until the third row display showing "SET" then release the button. The INT low alarm limit will be flashing (Default is -10).
3. Press [SET] to confirm INT low alarm limit and start high alarm limit setting. The INT high alarm limit will be flashing (Default is 50).
5. Press [SET] to confirm INT high alarm limit and start EXT low alarm limit setting. The EXT low alarm limit will be flashing (Default is 10).
7. Press [SET] to confirm EXT low alarm limit and start high alarm limit setting. The EXT high alarm limit will be flashing (Default is 50).
9. Press [SET] to confirm EXT high alarm limit and start data logging interval setting. The default value "1"(one minute) is flashing.
11. Press [SET] to confirm data logging interval and finish the settings.
12. The alarm will sound and the red light will be flashing when the reading is lower or higher than the alarm limit. The alarm sound will stop if the reading falls within the alarm limits or any button is pressed but the LO or HI icon and the red light will still be flashing which indicates that an alarm has been triggered.
13. To cancel the icon and red light flashing, press [ON/OFF] once.

### ALARM ON/OFF
Press [ON/OFF] once to switch the alarm limit off or on.

### DATA LOGGING ON/OFF
Press and hold [SET] to switch on or off the data logging. "ON / rEc" display means the data logging is on. "OFF / rEc" display means the data logging is off.

### POWER ON/OFF
1. Press and hold [ON/OFF] for about two seconds to switch off.
2. Press the button once to switch on.

### DATA RETRIEVAL
1. Switch off the unit and do below step 2 or 3 to get the SD card connected to the Windows or Mac computer.
2. Connect the unit to the Windows or Mac computer by the USB cable provided or open the SD card slot cover, push the card to take out the card and install it into the SD card USB adapter then insert the USB adapter into the computer.
3. Open the added disk on the computer.
4. Open the logging file on the disk to view the logged readings.

General Questions? Call 1-800-777-4908
Technical Support? Call 1-973-300-9100

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