Key Features:

1. **Temperature Range:** –50.00 to 70.00°C
2. **Update Rate:** 1 second
3. **Power:** Powered by 2 AAA (1.5V) batteries
4. **Probes:**
    - **Model 6408:** Supplied with a glycol-filled bottle probe designed for use in refrigerators/freezers. It simulates the temperature of liquids stored in those areas. The probe is non-toxic and FDA-approved for incidental contact with food or water.
    - **Model 6409:** Supplied with a standard plastic probe, suitable for air and liquid use. The probe and cable are fully immersible.

Instructions for Use:

Setting the Time-of-Day/Date:

1. Slide the **DISPLAY switch** to the **DATE/TIME** position.
2. Slide the top cover down to expose the controls.
3. Press **SELECT** or **ADVANCE** to adjust the time and date.
    - **Order of settings:** Year → Month → Day → Hours → Minutes → 12/24 hour format.
4. Use the **ADVANCE** button to increment values, or hold it for continuous incrementation.
5. Press **SELECT** until no digits are flashing to save the settings.
6. Press the **EVENT DATE/TIME** button to toggle between **Month/Day (M/D)** and **Day/Month (D/M)** formats.
7. If no buttons are pressed for 15 seconds, the unit exits setting mode automatically.

Viewing the Time-of-Day/Date:

- Slide the **DISPLAY switch** to the **DATE/TIME** position to view the time and date.

Displaying °F or °C:

- Slide the **°C/°F switch** to your preferred unit.

Memory Features:

- **MIN/MAX:** Records the minimum and maximum temperature since the last reset.
- **24-HOUR:** Records the min/max temperature each hour for the last 24 hours.
- **7-DAY:** Records the min/max temperature each day for the last 7 days.
- **31-DAY:** Records the min/max temperature each day for the last 31 days.

Switching Between Memory Modes:

1. Slide the **DISPLAY switch** to the **MIN/MAX** position.
2. Set the **HISTORY switch** to **ON**.
3. Press the **EVENT DATE/TIME** button 3 times to view the current history mode.
4. Press **SELECT** to toggle between modes (24-Hour, 7-Day, 31-Day).

Viewing and Clearing Minimum/Maximum Memory:

- To **view** the minimum/maximum memory, press the **EVENT DATE/TIME** button to cycle through the data.
- To **clear** the minimum/maximum memory, press the **CLEAR MIN/MAX** button.

Viewing Hourly Data (24-Hour Memory):

1. **Slide the 'HISTORY' switch to the 'ON' position.**
2. **Slide the 'PERIOD' switch to 'HR'** (hourly data).
3. Press the **'EVENT DATE/TIME'** button three times to begin viewing the hourly data. The LCD will show the current history viewing mode.
4. Press **'EVENT DATE/TIME'** to cycle through:
    - Minimum temperature for the current hour.
    - Maximum temperature for the current hour.
    - Minimum/maximum for previous hours in descending order.

5. Once all hourly readings are viewed, the display will return to the default min/max screen.
6. **Press and hold** the **'EVENT DATE/TIME'** button for 2 seconds or wait for 15 seconds without pressing any button to return to the default min/max screen.

Note:

- Data for the 24-hour memory will be lost when toggling to the 31-day memory mode.
- Data for the 7-day memory will be lost when toggling to the 31-day memory mode.

Clearing 24-Hour Memory:

1. Slide the **'DISPLAY' switch** to **MIN/MAX**.
2. Slide the **'PERIOD' switch** to **'HR'**.
3. Press the **'EVENT DATE/TIME'** button three times to view the hourly memory.
4. Press **'CLEAR MIN/MAX'** to clear the 24-hour memory.
    - **Note:** Clearing the 24-hour memory will **not** clear the 7-day memory.

Viewing 7-Day Minimum/Maximum Data:

1. **Slide the 'DISPLAY' switch** to **'MIN/MAX'**.
2. **Slide the 'HISTORY' switch** to **'ON'**.
3. **Slide the 'PERIOD' switch** to **'DAY'** (daily data).
4. Press the **'EVENT DATE/TIME'** button three times to view the daily data. The LCD will show the current history viewing mode.
5. Each press of the **'EVENT DATE/TIME'** button will display:
    - Minimum temperature for the current day.
    - Maximum temperature for the current day.
    - Minimum/maximum for previous days in descending chronological order.
6. Once all saved readings are viewed, the display will return to the default min/max screen.

7. Press and hold the **‘EVENT DATE/TIME’** button for 2 seconds or wait for 15 seconds without pressing any button to return to the default screen.

Clearing the 7-Day Memory:

1. Slide the **‘DISPLAY’ switch** to **MIN/MAX**.
2. Slide the **‘PERIOD’ switch** to **‘DAY’**.
3. Press the **‘EVENT DATE/TIME’** button three times to view the daily memory.
4. Press **‘CLEAR MIN/MAX’** to clear the 7-day memory.
    - **Note:** Clearing the 7-day memory will **not** clear the 24-hour memory.

Viewing 31-Day Minimum/Maximum Data:

1. **Slide the ‘DISPLAY’ switch** to **‘MIN/MAX’**.
2. **Slide the ‘HISTORY’ switch** to **‘ON’**.
3. Press the **‘EVENT DATE/TIME’** button three times to view the 31-day data. The LCD will display the current memory mode.
4. Press the **‘EVENT DATE/TIME’** button to view:
    - Minimum temperature for the current day.
    - Maximum temperature for the current day.
    - Minimum/maximum for previous days in descending chronological order.
5. Once all saved readings have been viewed, the display will return to the default min/max screen.
6. Press and hold the **‘EVENT DATE/TIME’** button for 2 seconds or wait for 15 seconds without pressing any button to return to the default screen.

Clearing the 31-Day Memory:

1. Slide the **‘DISPLAY’ switch** to **MIN/MAX**.
2. Press the **‘EVENT DATE/TIME’** button three times to view the 31-day memory.
3. Press **‘CLEAR MIN/MAX’** to clear the 31-day memory.

Setting High/Low Temperature Alarms:

Alarm Overview:

- The unit can be set with **high** and **low** temperature limits. The alarm will trigger when the measured temperature exceeds these limits (either below the low limit or above the high limit).
- The alarm will sound and the LEDs will flash when the temperature goes outside the set limits.
- The alarm is active regardless of the display mode.

Setting Temperature Alarm Limits:

1. **Slide the 'DISPLAY' switch** to the **ALARM** position. The display will show the current temperature with the low/high alarm set points.
2. Press the **'SELECT'** button to begin setting the alarm limits. The digits will flash in this order:
    - Low Alarm: 1st digit → 2nd digit → decimal digit.
    - High Alarm: 1st digit → 2nd digit → decimal digit.
    - Once all settings are done, no digits will flash.
3. **Use the ADVANCE button** to increment the values.
4. Once the alarm limits are set, they are saved.

Setting and Managing the Temperature Alarms:

Saving the Alarm Settings:

1. Once you've set the desired alarm limits (low and high), **press the SELECT button** until no digits are flashing on the display. This saves the alarm settings.
2. **Note:** If no button is pressed for 15 seconds during the alarm setting mode, the unit will automatically exit the setting mode and stop flashing the digits.

Viewing the Alarm Limits:

1. **Slide the DISPLAY switch to the ALARM position** to view the current temperature and the low/high alarm set points.

Enabling/Disabling Alarms:

- **Enable the alarm:** Slide the **ALARM switch to the ON position**. This enables both the high and low alarms. If the temperature exceeds these set points, the alarm will activate.
- **Disable the alarm:** Slide the **ALARM switch to the OFF position**. This disables the alarm, so it won't sound even if the temperature is outside the set range.

Alarm Sounding:

- **When the alarm is triggered:**
    - The alarm will sound, the corresponding alarm LCD segment will flash, and the red LEDs will flash.
    - If the alarm condition continues for **60 seconds**, the alarm will sound and LEDs will flash for **10 seconds** every minute.
    - **"LO ALM"** will flash for a low alarm, and **"HI ALM"** will flash for a high alarm.

Acknowledging/Silencing the Alarm:

1. **To silence the alarm:**
    - **Slide the ALARM switch to OFF** (the alarm will silence but may reactivate if the temperature is still in alarm mode when the switch is turned back on).
    - **Press the SILENCE ALM button** (the alarm will be silenced but will activate again once the temperature returns to an out-of-range condition).

Viewing Alarm Event Date & Time:

1. **Slide the DISPLAY switch to ALARM** to see the current temperature and alarm set values.
2. **Press the EVENT DATE/TIME button** to view the most recent alarm event. The screen will display the alarm set value and the time of the alarm.
    - If no alarm has triggered, the display will show **LL.LL**, indicating either the probe is disconnected, the temperature is outside the unit's range, or the alarm values have been changed.

Example: Using the Alarm and Memory to Monitor a Refrigerator/Freezer:

1. **Unit Setup:**

- Plug the probe into the unit.
- Install the batteries.
- Place the probe sensor inside the refrigerator or freezer.
- Place the display unit outside the refrigerator/freezer.
- If using a bottle probe, allow time for the probe to reach equilibrium with the current temperature.

2. **Set Alarm Limits:**
   - Set the **low alarm limit** to **0°C**.
   - Set the **high alarm limit** to **5°C**.
3. **Enable Alarms:**
   - Enable the alarms using the **ALARM switch**.
4. **Clear Memory:**
   - Clear the minimum and maximum memories to start fresh.
5. **Display Setup:**
   - Slide the **DISPLAY switch to the MIN/MAX position** to monitor the current temperature and the minimum/maximum temperatures achieved inside the refrigerator/freezer.
6. **Alarm Activation:**
   - If the temperature exceeds the alarm limits (below 0°C or above 5°C), the alarm will sound.
   - The memory will track the lowest and highest temperatures during the monitored period.

Battery Replacement:

1. **When to Replace Batteries:**
   If the unit displays erratic readings, faint displays, no display, or shows a battery symbol, it's time to replace the batteries.
2. **Replacing the Batteries:**

    - Slide the **battery cover** on the back of the unit to remove it.
    - Remove the **exhausted batteries** and replace them with **two new AAA alkaline batteries**.
    - Ensure the batteries are placed according to the polarity markings inside the battery compartment.
    - Replace the battery cover.
3. **Important Note:** Replacing the batteries will clear the **minimum/maximum memories**, **alarm settings**, and the **time-of-day/date**.

Operational Difficulties:

- **Low Battery:** Can cause erratic behavior in the unit. Replacing the batteries should resolve most operational issues.
- If problems persist, ensure the battery is inserted correctly or consult the user manual for additional troubleshooting steps.