

Model LM-500 Liquid Cryogen Monitor - Quick Guide

I. Start-Up

Step 1: Connect the liquid level sensor to the "Sensor(s), I/O port" (DSUB15Pin connector on the rear panel of the monitor).

Step 2: Insert the power cable plug into the power socket (rear panel).

II. Measurement of Liquid Level

Step 1: Turn on the power switch (rear panel). → The liquid level will be displayed on the screen.

III. Sample/Hold and Continuous Modes

1. Sample/Hold Mode

The level of liquid He is measured/updated by pressing the Enter key or at pre-programmed intervals (Intvl menu). Unless the Enter key is pressed, the last measurement result is displayed.

2. Continuous Mode

The level of liquid He is measured continuously and kept up-to-date. Please note that in this mode measurements may be performed more often than necessary.

3. Switching Modes

Step 1: Press the Menu key to display the Menu screen.

Step 2: Highlight the "Mode" using Δ or ∇ key.

Step 3: Press the Enter key and choose either "Sample/Hold" or "Continuous."

Step 4: Press the Menu key while the selected mode is displayed to go back to the display screen.

4. Measurement Operation

Sample/Hold mode: Press the Enter key. → The level of liquid He is measured and the value is updated.

Continuous mode: The level of liquid He is measured/updated automatically.

IV. Finishing-Up

Step 1: Turn off the power switch.



FRONT PANEL

V. Menuing System

1. Mode

You can configure the mode settings to measure the level of liquid He. Choose either "Sample/Hold" or "Continuous."

2. Limits

The Limits menu configures the alarm feature and the liquid level set points for the external signal for automatic refill.

3. Fill

The Fill menu can configure the automatic refill feature.

4. Intvl

The Intvl menu is used to configure the settings for measurement intervals. Keep pressing the \triangle or ∇ key until the desired interval is displayed.

5. Units

With the Units menu, you can choose a measurement unit from "cm," "%," and "in."

6. Boost

The Boost menu is used for the sensor defrost mode setting. (This mode sends a stronger electric current when the sensor gets frozen.)

7. Ports

The Ports menu can configure the parameters for RS-232, GPIB, and analog output port.

8. Cal

The Cal menu is utilized as a calibration parameter to configure the settings for sensor length, characteristic resistance, and wiring resistance.

VI. Menu Operation

1. Press the Menu key.
2. Highlight the desired menu item using \triangle or ∇ key and press the Enter key.
3. Press the Menu key to exit.

