



FREQUENCY CONTROLLER WITH LCD



SAFEGUARDS AND PRECAUTIONS:



Read and follow all instructions in this instruction sheet carefully, and retain this sheet for future reference.

Do not use this instrument in any manner inconsistent with these operating instructions.

Do not exceed maximum flash rate of 9,000 FPM.

This instrument is not user serviceable. For technical assistance, contact the sales organization from which you purchased the product.

DESCRIPTION:

The Frequency Controller with LCD allows the user to change the flash rate of the MVS 115 or MVS 230.

DISPLAY PANEL / DEFINITION OF BUTTONS

The display panel consists of a backlit liquid crystal display with six numeric digits on top and five alphanumeric digits on the bottom, which indicate modes, flash rates, etc. (see Figure 1).

Additional information displayed include:

- TIME** Unused
- AUTO** Unused
- ALT.** Indicates alternate function of each button (lower section) and knob will be used
- TACH** Tachometer Mode active (strobe won't flash)
- LOCK** Unused
- EXT** External Input Mode active
-  On Target Indicator for Tachometer Mode and Remote Sensor in External Mode
-  Indicates input frequency exceeds the limit of the stroboscope
-  Low Battery indication, Unused

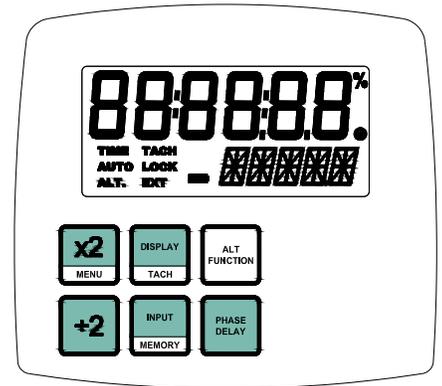


Figure 1 Display Panel

Below the display are six membrane buttons which control the operation of the Stroboscope. They are:

-  Multiplies flash rate by 2 times
ALT Function - Starts Menu (See section 3.0)
Hold when powering up to show all segments, then Rev # and display test
-  Divides flash rate by 2
Hold when powering up to reset factory defaults
-  Toggles display between RPM and RPS
ALT Function - Toggles Tach Mode (flashing) on/off
-  Manually toggles between Internal and External Modes
ALT Function - Memory - Reads and Stores 9 preset flash rates
-  Activates Alternate Function for buttons (lower section) and knob
-  In Internal Mode, toggles between normal flash rate adjust and "phase" adjust

The **ALT FUNCTION** button toggles **ALT.** in the display. When **ALT.** is displayed, the buttons will perform their secondary function listed in the lower section of each button. It also changes how the tuning knob works.

MENU

The strobe has a Menu which allows the user to select settings such as number of decimal places, backlight on or off and positive or negative edge for input and output signal.

To enter the MENU:

1. Press the **ALT FUNCTION** button and then the **MENU** button.
2. **SETUP** and the menu option will be displayed.
3. Turn the tuning knob to cycle through the main menu options.
4. Once the desired menu option is displayed, press the **MENU** button to select it. Press any other button to cancel.
5. Turn the tuning knob to edit the menu option setting.
6. Press the **MENU** button to save your changes. Press any other button to cancel.
7. Press any button other than **MENU** to exit the Main Menu.
8. **DONE** will be displayed.

Below is a list of the menu items:

- DECP** - Decimal Point (none, 1 or 2)
- BLITE** - Backlight (Yes=On or No=Off)
- INPUT** - Positive (pos) or Negative (neg) Edge for Input Signal
- OUTPT** - Positive (pos) or Negative (neg) Edge for Output Signal



In order to comply with EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE):

This product may contain material which could be hazardous to human health and the environment. **DO NOT DISPOSE** of this product as unsorted municipal waste. This product needs to be **RECYCLED** in accordance with local regulations, contact your local authorities for more information. This product may be returnable to your distributor for recycling - contact the distributor for details.

Monarch Instrument's Limited Warranty applies. See www.monarchinstrument.com for details.

Warranty Registration and Extended Warranty coverage available online at www.monarchinstrument.com.

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