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Meadowlark Optics Liquid Crystal Controller, Analog

Meadowlark Optics Liquid Crystal Controller, Analog

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Physical & Mechanical Properties

Dimensions (mm):

3.3 x 6.0 x 2.2

Electrical

Bias Voltage:

+/- 10mVDC

Hardware & Interface Connectivity

Output Voltage (V):

0 to 20 Vac, RMS, Maximum

Power Supply:

12 VDC 200mA or 9V Battery
External power supply included
100-240VAC, 50-60Hz, 0.3A
International plug adapters included

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- Provides Convenient and Versatile Control of **Meadowlark Optics Liquid Crystal Variable Retarders**
- Analog and Digital Options
- USB-Powered

Meadowlark Optics Liquid Crystal Controllers are designed for convenient operation of liquid crystal components and are compatible with **Meadowlark Optics Liquid Crystal Variable Retarders**, as well as other liquid crystal optics that fit the listed specifications. These controllers allow for versatile benchtop control and modulation of components and are available in two types: Analog and Digital. The analog controller features independent voltage setting that allow for the easy and repeatable selection of two retardance values for modulation between different states via a manual toggle and the digital controller allows for easy control of multiple liquid crystal cells using the included CellDRIVE 5000 software. Meadowlark Optics Liquid Crystal Controllers can be used with the included liquid crystal retarder plot of actual retardance vs voltage to ensure an accurate retardance to voltage correlation.

Liquid Crystal Controllers are designed for the convenient operation of liquid crystal components, and are compatible with Meadowlark Optics Liquid Crystal Variable Retarders, as well as other liquid crystal optics that fit the listed specifications. These controllers allow for versatile benchtop control and modulation of components, and are available in two types:

Analogue Liquid Crystal Controller

The Meadowlark Optics Analogue Liquid Crystal Controller offers out-of-the box functionality for simple and seamless control of liquid crystal components, with a convenient, standalone benchtop operation. This driver features independent voltage setting that allow for the easy and repeatable selection of two retardance values for modulation between different states via a manual toggle. Banana jacks between the knobs allow for continuous voltage monitoring without interfering with LC device connections. Each Meadowlark Optics Liquid Crystal Retarder is supplied with a plot of its actual retardance vs voltage, which can be used with this controller to ensure accurate retardance to voltage correlation. This controller features an optional battery supply, and an external power supply with international adapters is included.

Liquid Crystal Digital Interface

The Meadowlark Optics Liquid Crystal Digital Interface is designed for user functionality and productivity, allowing for two channels of voltage and temperature sensing and control, as well as a “set and go” function that allows the controller to run autonomously without a computer. With independent SMB I/O connectors for each channel and multiple external control options, the Meadowlark Optics Liquid Crystal Digital Interface allows for easy control of multiple liquid crystal cells through the use of its CellDRIVE 5000 software (included) which provides a separate sync output for each channel. The 2kHz square wave output can be amplitude modulated with sinusoidal, square, triangle, sawtooth and transient nematic effect waveforms.

The Meadowlark Optics Liquid Crystal Digital Interface package includes:

-Controller Unit

-Front Panel SMB I/O Connectors

-User Manual

-USB Cable

-Power Supply and Power Cable

-Temperature Sensing and Control Capability

-CellDRIVE 5000 Software

-National Instruments LabVIEW virtual instrument drivers