

# **FLUORESCENT LAMP CONTROLLER & RAPID ONSET FLUORESCENT STIMULATOR**

PHM-258 & PHM-258L

USER'S MANUAL

**DOC-073**

**Rev. 1.2**

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notes

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## CHAPTER 1 | INTRODUCTION

The PHM-258L Rapid Onset Fluorescent Stimulator features a high intensity light (maximum intensity of 107 lux) and rapid onset (15 microseconds). The PHM-258L is 2-3/8" high and is 13-1/4" long and contains an eight-watt bulb.

The PHM-258 Fluorescent Lamp Controller plugs directly into, and can be controlled by, a standard MED auxiliary port. It may also be operated manually using the front panel switch. The PHM-258 fits nicely inside a MED Associates Rack Mount enclosure.

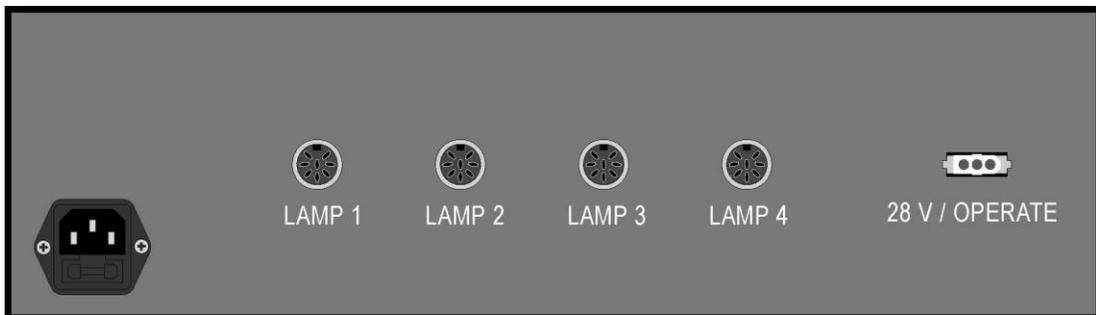
### Connections

Connect up to four PHM-258L Fluorescent Stimulators to the round DIN connectors labeled **LAMP 1** through **LAMP 4** located on the back panel of the PHM-258. These connectors are keyed, so proper alignment of the connector(s) is necessary.

Connect a control cable from the PHM-258 back panel connector labeled **28V/OPERATE** to either an **AUX** connector on a PHM-255 or an output connector on a Smart Control Interface box.

Once these connections have been made, use the included power cord to plug the PHM-258 in to a standard wall outlet.

*Figure 1-1 – Back of the PHM-258 Fluorescent Lamp Controller*



*Figure 1-2 – PHM-258L Stimulator*



## CHAPTER 2 | TECHNICAL SPECIFICATIONS

### PHM-258 Fluorescent Lamp Controller

Operating Line Voltage:	115 / 220 VAC (Factory Selectable)
Max. Operating Line Current:	.20 A
Number of Outputs:	4
Lamp Turn On Time:	15 microseconds
Lamp Intensity @ 6" from lamp (4 fixtures connected):	6-107 Lux

#### Features:

- Accepts standard MED Output signal to operate
- Adjustable lamp intensity control
- Manual 'Operate' switch with LED indicator
- Standard MED Rack Mount Enclosure (19"W x 5.25"H x 4.5"D)

### PHM-258L Rapid Onset Fluorescent Stimulator

Length:	13-1/4"
Width:	2"
Height:	2-3/8"

Enclosure made from white PVC  
Top and sides made from clear polycarbonate

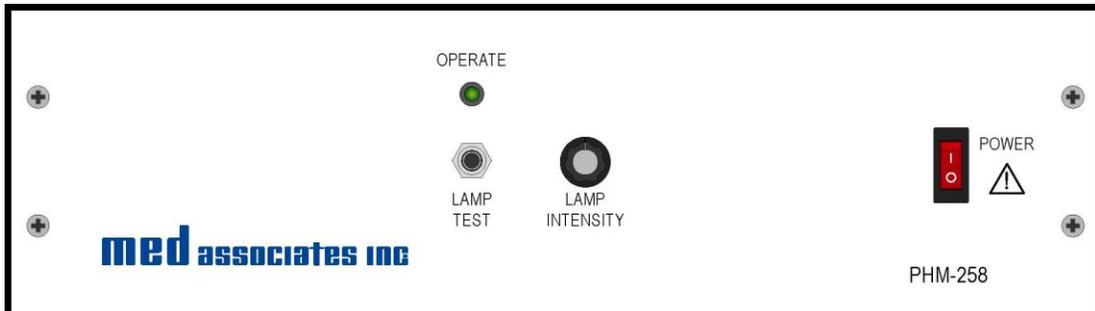
#### Fluorescent Bulb

Bulb Type/Part Number:	F8T5CWX 24 "Cool White Deluxe"
Actual Length:	11.91 inches (302.5 mm)
Base:	miniature bi-pin
Bulb:	T5
Color Rendering Index (CRI):	87
Color Temperature/CCT:	4100 K
Diameter:	.63 inches (16 mm)
Initial Lumens at 25C:	270
Mean Lumens at 25C:	235
Nominal Length:	12 inches
Nominal Wattage:	8.00 W
Normalized Spectral Power:	.05 @ 435 nm (W/nm per 1000 lm)

## CHAPTER 3 | OPERATING INSTRUCTIONS

Turn on the power switch to the PHM-258 controller. Turn on the 28 Volt power supply and interface cabinet (the newer interface cabinets have both power supplies built in). Push the **LAMP TEST** pushbutton switch located on the front panel to activate the PHM-258L Stimulator(s), the green **OPERATE** light on the front panel of the PHM-258 should turn on, as well as the fluorescent stimulators. Adjust the **LAMP INTENSITY** control knob for the desired light output.

Figure 3-1 – PHM-258 Fluorescent Lamp Controller Front Panel



**NOTE:** The PHM-258 Fluorescent Lamp Controller is a rapid onset, high intensity light source. When all four PHM-258L stimulators are connected to the controller with the controller enabled and set to maximum output intensity, the operator may notice some degradation in light output and possible lamp flicker. This is normal and will not affect the light output when used as a strobe.

## Appendix A | Contact Information

Please contact MED Associates, Inc. for information regarding any of our products.

Visit our website at [www.med-associates.com](http://www.med-associates.com) for contact information.

For technical questions, email [support@med-associates.com](mailto:support@med-associates.com).