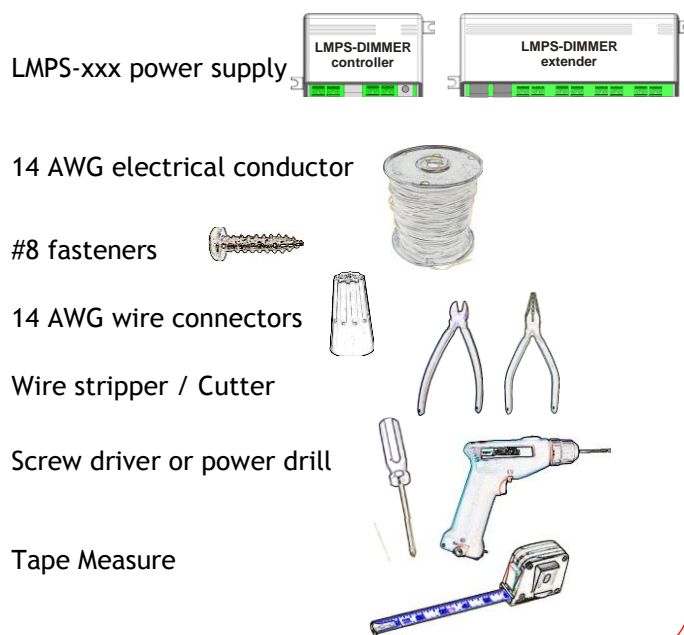


LMPS-Dimmer Controller # LMPS-CONT  
LMPS-Dimmer Extender # LMPS-EXT

#### Products, components & tools for easy installation



#### WARNING

**Risk of electrical shock.** Before installing, switch power off at the electrical panel and follow appropriate safety procedures.

**Before installation.** Prepare a layout, a required list of material and inspect the area of installation.



**Loading.** Factors can affect the loading of the power supply. The user shall ensure that maximum loading will not be exceeded.

**Safe installation.** The user is responsible for the safe electrical and mechanical installation of the power supply and of the suitability of the wiring system, mounting surfaces and hardware used. All equipment shall be installed in accordance with the electrical code in a neat and workmanlike manner. See NECA 1-2010 standard “Good Workmanship in Electrical Construction”.

**Wiring.** The user is responsible for proper selection of the electrical conductor type; see the requirements in technical bulletin #27 “Wiring for architectural applications”.

**Class 2 circuit** shall be physically separated from other circuit types.

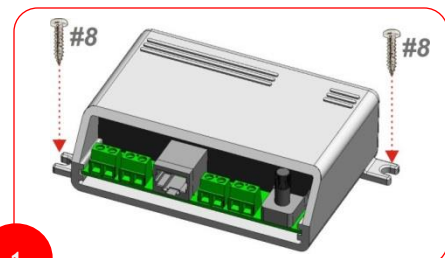
## Characteristics

	LMPS-Dimmer Controller	LMPS-Dimmer Extender
Channel In	ONLY from Class 2 LMPS-350 (1 input)	ONLY from Class 2 LMPS-350 (4 inputs)
Channel Out	Class 2 output for compatible LED arrays (1 channel)	Class 2 outputs for compatible LED arrays (4 channels)
CTRL-OUT	RJ45 Output: Connection to optional LMPS-Dimmer Extender	RJ45 Output: Connection to LMPS-Dimmer Extender (optional)
CTRL-IN	N/A	RJ45 Input: Connection from LMPS-Dimmer (Controller or Extender)
Potentiometer	Manual light intensity control (0-100%)	N/A
IN-PWM	Pulse Width Modulation digital input (0-5v, 14mA)	N/A
IN- 0-10V (voltage source)	Analog input 0-10VDC (10mA) standard ESTA E1.3	N/A
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)	
Operating environment	Dry locations only	
Warranty	5 years	
Certification	<div> LED Equipment Use in Lighting Products / Luminaires</div>	
<div></div>	The LMPS-Dimmer Controller and LMPS-Dimmer Extender shall only be used with the Class 2 LMPS-350 and compatible LED arrays. Failure to comply will void all warranties and UL/ETL listing.	

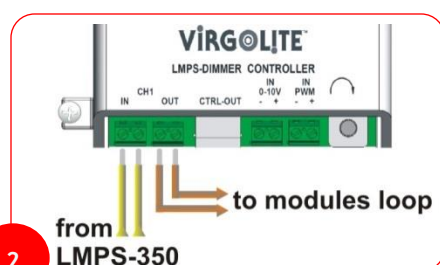
## Bill of Material & Layout

For material estimations, please refer to the *technical bulletin #11 LMPs-Dimmer Architectural Lighting Installation Guide*. For a free layout, please complete the layout request form on our website. For technical assistance, please contact us 1.800.665.1166.

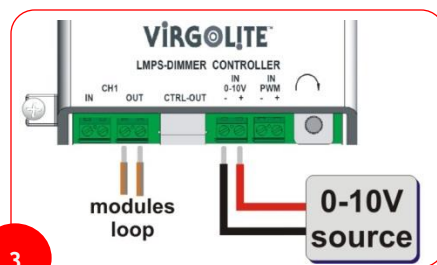
## Installation - LMPs-Dimmer Controller and LMPs-Dimmer Extender



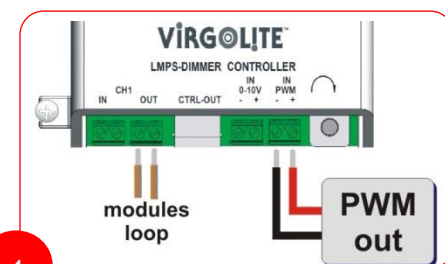
1  
Secure the LMPs-Dimmer with #8 screws.



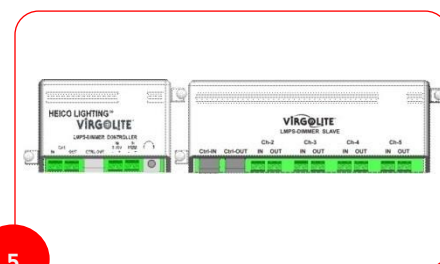
2  
Connect the LMPs-350 power supply Class 2 output to CH1 IN. Connect the LED array (loop of modules or D-LEDbar™) to CH1 OUT. No polarity.



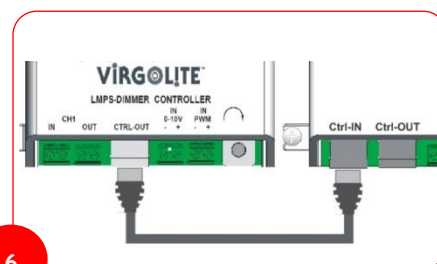
3  
For 0-10V control, turn the pot clockwise to the minimum position. For 0-10V connections, respect polarity. **IMPORTANT:** the 0-10V remote control must source the voltage to the LMPs-Dimmer. For 0-10V sink operation, refer to technical bulletin #11.



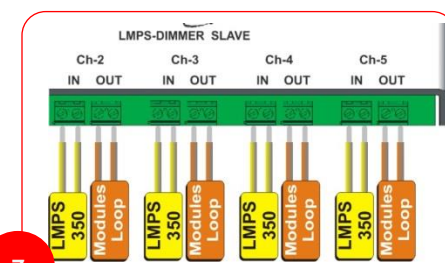
4  
For PWM control, turn the pot clockwise to the minimum position. For PWM connections, respect polarity. **IMPORTANT** - the PWM remote control must drive at TTL level (max. 5V).



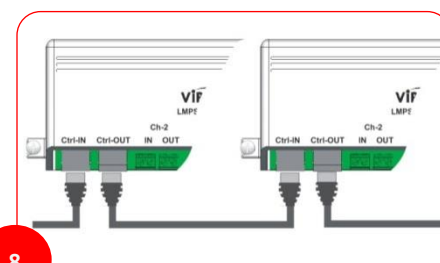
5  
For large installation, add an LMPs-Dimmer Extender to expend the channel capability. Install the LMPs-Dimmer Extender beside the LMPs-Dimmer Controller.



6  
From the LMPs-Dimmer Controller CTRL-OUT port, connect a standard CAT5 cable to the CTRL-IN port of the LMPs-Dimmer Extender.



7  
Connect the LMPs-350 Class 2 output to CH2 IN. Connect the wires of the LED array to CH2 OUT. Repeat sequence for CH3-CH4-CH5.



8  
If more than five channels are required, cascade up to 15 LMPs-Dimmer Extender for a total of 61 channels. From the LMPs-Dimmer Extender #1 CTRL-OUT port, connect a standard CAT5 cable to the CTRL-IN port of the LMPs-Dimmer Extender #2.

## Troubleshooting

Symptom	Solution
Some LED arrays on one power supply are dim or completely off.	<ul style="list-style-type: none"><li>• Verify all connections. LED arrays must be wired in series.</li><li>• Check AC input and/or check circuit breaker.</li></ul>
All LED arrays on one power supply are dim or are flickering.	<ul style="list-style-type: none"><li>• Verify that the power supply is not overloaded. Revise the loading accordingly.</li><li>• Verify that the correct model of power supply is used.</li><li>• Verify that the correct distance factor was applied.</li><li>• Verify that the correct extension wire is used.</li></ul>
Some LED arrays or one or many LEDs on a LED arrays do not light.	<ul style="list-style-type: none"><li>• Replace the affected LED arrays.</li></ul>
The splice connections are very hot.	<ul style="list-style-type: none"><li>• Verify that the splice connections are made with a splice connector approved for the purpose and that the connections are secured.</li></ul>

For further information, please refer to technical bulletin #5 Contactless LED System Troubleshooting.

## Additional Information

- If you are using an LMPS-Dimmer, please refer to technical bulletin #11 *LMPS-Dimmer Architectural Lighting Installation Guide* for further instructions.
- Turn off power before installation, inspection, repair or removal.
- The user is responsible for proper selection of the electrical conductor type that will be used for the specific application; please refer to the requirements in technical bulletin #27 *Wiring for Architectural Applications*.
- Follow all National Electrical Codes (NEC) and local codes.
- TFT Transfotec™ makes no warranty expressed or implied as to the fitness of use of the products. Their use shall be solely by the judgment and at the risk of the user notwithstanding any statement in this technical bulletin.

Refer to the following literature for additional information:

- LMPS-Dimmer Controller and LMPS-Dimmer Extender Specification Sheet Document 11734.002.G1
- Technical bulletin #5 Contactless LED System Troubleshooting
- Technical bulletin #11 LMPS-Dimmer Architectural Lighting Installation Guide
- Technical bulletin #27 Wiring Guide

For other configurations or general information, please contact TFT Transfotec™ +1.888.653.3533. [www.transfotec.com](http://www.transfotec.com)