

This addendum covers GP Dimming Panels with the GRX-TVM2 Dimming Module(s). This document should be used in conjunction with the GRAFIK Eye® 4000 Series GP Installer's Guide (P/N 032-091) and the GRAFIK 5000®/GRAFIK 6000® Lighting Control System Installer's Guide (P/N 041-074, 032-093). Please follow these additional instructions, where applicable, when installing the *GRAFIK Eye 4000* or *GRAFIK 5000/GRAFIK 6000* Series Systems.



CAUTION!

- GP panels require entry of wires as specified. Improper entry will block serviceable parts, and impede air flow through the panel.
- Install in accordance with all national and local electrical codes.
- Miswiring of low-voltage wires to line voltage can damage all ballasts and the GRX-TVM2 connected to the circuit. Lutron is not liable for damage due to miswiring low-voltage control signal wires with line voltage.

Specifications

- Up to twelve (12) GRX-TVM2 modules in a panel.
- Each GRX-TVM2 controls two consecutive circuits of lighting.
- Controls 0-10V, DSI (Digital Serial Interface), and PWM (Pulse Width Modulated).
- 50 mA maximum low-voltage ballast control current per circuit for each GRX-TVM2.
- 750 mA maximum low-voltage ballast control current per panel.

TVM Wiring

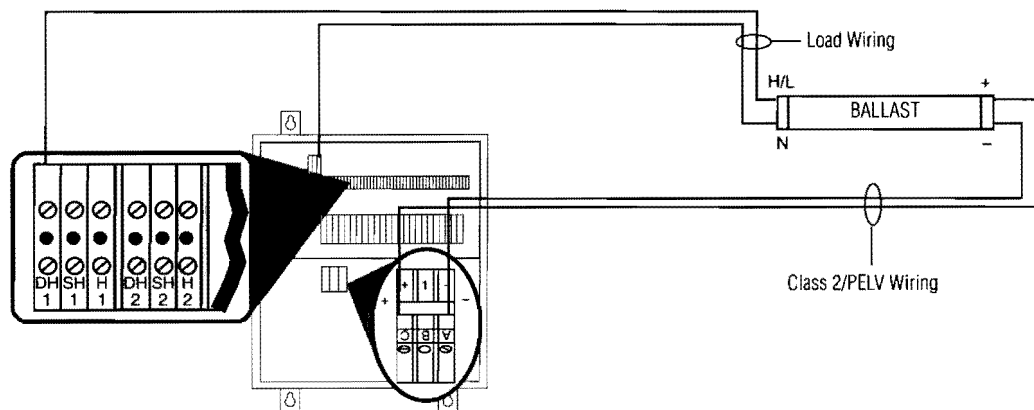


Warning: Always turn Off the circuit breaker or remove the main fuse from the power line before doing any work. Failure to do so can result in serious personal injury.

Leave factory-installed bypass jumpers in place until you have installed and tested the module as described in the *GRAFIK Eye 4000* Series GP Installer's Guide and the *GRAFIK 5000/GRAFIK 6000* Lighting Control System Installer's Guide.

Turn power Off. Remove front cover of dimming panel and top plate. Pull input feed and load wiring from raceway. Punch panel knockouts through the left side at the top of the panel and insert feed wiring; insert load wiring through the center of the top plate. Pull Class 2/PELV low-voltage twisted, shielded pair ballast control wiring through the upper knockout on the right side of the panel. Wire as shown below.

DH = DIMMED HOT (LIVE);
H = HOT (LIVE);
SH = SWITCHED HOT (LIVE)
N = NEUTRAL



Load Type Settings

GRX-TVM2 circuits are the first circuits in the panel. If a 0-10V, PWM, or DSI circuit is required, one of the load types shown below must be used when setting the Load Type (at the Circuit Selector) for these circuits. Failure to correctly assign Load Type may damage loads - especially certain electronic transformers and electronic ballasts and motors.

Load Type 2-3 Fluorescent: 0-10V, with TVM

Load Type 2-4 Fluorescent: PWM, with TVM

Load Type 2-5 Fluorescent: DSI* with TVM

* DALI intensity broadcast is available with Load Type 2-7. This function is the same as DSI; the ballasts are not addressable.

Internet: www.lutron.com
E-mail: product@lutron.com

WORLD HEADQUARTERS
Lutron Electronics Co. Inc.,
TOLL FREE: (800) 523-9466
(U.S.A., Canada, Caribbean)
Tel: (610) 282-3800;
International ++1- 610-282-3800
Fax: (610) 282-1243;
International ++1-610-282-1243

GREAT BRITAIN
Lutron EA Ltd.,
Tel: (207) 702-0657;
International ++44-(0)207-702-0657
Fax: (207) 480-6899;
International ++44-(0)207-480-6899

GERMANY
Lutron Electronics GmbH
Tel: (309) 710-4590;
International ++49-30-97-10-4590
Fax: (309) 710-4591;
International ++49-30-97-10-4591

FRANCE
Lutron LTC
International ++33-(0)1-44-70-71-86
Int'l Fax: ++33-(0)1-44-70-70-97

ASIAN HEADQUARTERS
Lutron Asuka Corporation (Japan)
Tel: (03) 5405-7333;
International ++81-3-5405-7333
Fax: (03) 5405-7496;
International ++81-3-5405-7496

HONG KONG SALES OFFICE
Lutron GL (Hong Kong)
Tel: 2104-7733;
International ++852-2104-7733
Fax: 2104-7633;
International ++852-2104-7633

SINGAPORE
Lutron GL (Singapore)
Tel: ++65-220-4666
Fax: ++65-220-4333

LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid. **This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or reinstallation, or damage resulting from misuse, abuse, or improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

One or more of the components may be protected under one or more of the following U.S. patents: 4,797,599; 4,803,380; 4,893,062; 4,924,151; 5,038,081; 5,187,655; 5,191,265; 5,309,081; 5,430,356; 5,463,286; 5,530,322; 5,633,540; 5,808,417; 5,949,200; 5,990,635; 6,046,550; 6,091,205; DES. 308,647; DES. 310,349; DES. 311,170; DES. 311,371; DES. 311,382; DES. 311,485; DES. 311,678; DES. 313,738; DES. 317,593; DES. 325,728; DES. 335,867; DES. 344,068; DES. 344,264; DES. 370,663; DES. 378,814; DES. 387,736; DES. 412,315; DES. 412,491; DES. 421,399; DES. 422,567; DES. 431,199; DES. 436,930 and corresponding foreign patents. U.S. and foreign patents pending. GRAFIK 5000 is a trademark, and Lutron, GRAFIK Eye, and GRAFIK 6000 are registered trademarks of Lutron Electronics Co., Inc.
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