GRAFIK T_{III}

Installation Instructions

Please Read Before Installing

Model Numbers						
Hybrid Keypad ^{1,2,3}	LED	Incandescent/ Halogen	MLV ^{4,5,6,7} Halogen	Dimmable Electronic Ballast or Driver ^{8,9,10}		
RRT-GH2B RRT-GH4B RRT-GH5B RRT-GH6B HQRT-GH6B HQRT-GH4B HQRT-GH5B HQRT-GH6B	250 W	600 W (Not ganged) 500 W (End of gang) 400 W (Middle of gang)	400 VA (300 W)	3.3 A (400 VA)		
Companion devices						

RT-GRDW For use with BBT– hybrid keypads, dimmers and switches (0.1 A) HQT-GRDW For use with HQRT- hybrid keypads, dimmers and switches (0.1 A)

GRAFIK T™ -GH2B, -GH4B, -GH5B, and -GH6B models can control power boosters / load interfaces if neutral is used. See Lutron® P/N 369971 and 369985, Compatible Power Boosters and Load Interfaces.

- RRT- models are RadioRA_® 2 compatible and HQRT- models are HomeWorks_® QS compatible Not for use with receptacles or appliances (e.g., garbage disposals). See Lutron® Application Note #109 for compatibility with dimmed receptacles.
- Magnetic Low-Voltage Applications: Use with halogen-based lamps only. UL $_{\odot}$ listed for use with dimmable ELV transformers, but not recommended because Lutron does not do
- system performance testing Operation of a low-voltage circuit with lamps inoperative or removed may result in transformer overheating
- and premature failure. Lutron strongly recommends the following: Do not operate low-voltage circuits without operative lamps in place.
- Beplace burned-out lamps as soon as possible.
- Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.
- When using the hybrid keypad to control MLV halogen-based fixtures, the maximum lamp wattage is determined by the efficiency of the transformer, with 70%-85% as typical. For actual transformer efficiency, contact either the fixture or transformer manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the hybrid keypad. ³ Ten (10) driver maximum
- ⁹ Includes Lutron® Hi-lume® 1% 2-wire LED drivers, Mark X_{TM}, Tu-Wire®, and POWERSENSE®.
- ¹⁰ Neutral is required for Mark X_{TM} Tu-Wire® and POWERSENSE®

Recommended LEDs

If dimming LED bulbs, they must be Lutron® compatible! For current compatibility and performance information visit www.lutron.com/LED.

Important Notes

- 1. CAUTION: To avoid overheating and possible damage to other equipment, do not use hybrid keypads to control receptacles or motor-operated appliances.
- 2. Install in accordance with all national and local electrical codes.
- 3. When no "grounding means" exist in wallbox, the NEC_® allows control without a grounding connection to be installed as a replacement if 1) a non-metallic, noncombustible faceplate is used with nonmetallic attachment screws or 2) the circuit is protected by a ground fault circuit interrupter (GFCI). For this type of installation, cap or remove the green ground wire on the hybrid keypad, and only use a Lutron_® GRAFIK T_™ wallplate
- 4. GRAFIK T_™ controls are not compatible with standard 3-way switches. Use only with GRAFIK T_™ companion devices
- 5. GRAFIK T_{TM} Companion devices cannot be used individually but must be used in conjunction with a GRAFIK T_M hybrid keypad in a multi-location application.
- 6. In any multi-location circuit, use only one GRAFIK T_{TM} hybrid keypad with up to four GRAFIK T[™] companion devices.
- 7. Neutral wire connection is optional for GRAFIK T_m hybrid keypad; however, the best dimming performance will be obtained when the neutral wire is connected. Always cap the white wire if a neutral wire is not present in wallbox.
- 8. Return to Factory Settings (Note: Returning a control to the factory settings will remove it from the system and erase all programming).
- Step 1: Triple tap any button on a control. DO NOT release after the third tap.
- Step 2: Keep the button pressed on the third tap (for approximately 3 seconds) until the LEDs on the control start to scroll up and down quickly.
- Step 3: Release the button and immediately triple tap the button again. The LEDs on the control will scroll up and down slowly. Factory settings have been restored.

Installation

English

 $120 V \sim 50/60 Hz$

P/N 0301815 Rev A

1 Turn OFF power at circuit breaker.

WARNING! Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing the unit.

2 Remove wallplate and the switch mounting screws. Leaving all wires attached, carefully pull the switch out from the wall.

3 Identify switch type.

Single-pole – The switch will have insulated wires connected to two screws of the same color plus a green ground screw.





- 4 The switch may have two wires attached to the same screw. Tape these two wires together before disconnecting. Proceed to disconnect the wires from the switch.
- 5 Remove wallplate from the GRAFIK T[™] hybrid keypad and any companion device but leave wallplate adapter connected

6 Install GRAFIK T™ control.

Wire connectors provided are for copper wires only. For aluminum IMPORTANT wires, consult an electrician.

6a Single-pole – Switch will be replaced by a GRAFIK T_{TM} hybrid keypad.

Connect the **Green** ground wire on the hybrid keypad to the **Green** or bare ground wire in the wallbox (See Important Notes, number 3).

Connect the **Black** wire on the hybrid keypad to one of the wires removed from the switch. If you had taped together two wires (see step 4), connect both wires to the **Black** wire on the hybrid keypad and remove the tape.

Connect the **Red** wire on the hybrid keypad to the other wire removed from the switch.

Connect the White wire on the hybrid keypad to the neutral wire in the wallbox (See Important Notes, number 7).



IMPORTANT Cut the blue wire at the insulation and cap with the yellow connector

6b Multi-location – Lamps can be controlled from multiple locations.

One location will be replaced by a GRAFIK T_{TM} hybrid keypad and the other location(s) by a

Hybrid Keypad





8 Turn ON power at circuit breaker.

9 If desired, consider adjusting low-end and high-end trim by using the RadioRA_® 2 or

		Load Type		
Application	Number of Companion Devices	LED 1, 2	Incandescent/	
Single-pole	0	3 LED lamps	80 W	
	1	4 LED lamps	120 W	
Multi legation	2	5 LED lamps	160 W	
wuuli-iocalion	3	6 LED lamps	200 W	
	4	7 LED lamps	240 W	

² If using neutral wire, the minimum load required is one LED lamp or Lutron® Hi-lume® 1% 2-wire LED driver. ³ If using neutral wire, the minimum incandescent/halogen load required is 5 W.

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Multi-location - 3-way switches will have insulated wires connected to three screws plus a green around screw. One of the wires is connected to

Operation

any button is pressed

Guide to program.