Installation Instructions Sapphire™

Touch Screen



Installation

Installation Pre-requisites:

- . Determine how the device will be powered using Leviton factory drawings. If a decision has not been made, use the power input terminals. Three options exist:
- Power over LumaCAN[™] cable
- Auxiliary Power Input Terminals, +12-24VDC.

Note: In North America listed/certified class 2 power supply required. Outside North America, a power supply compliant with IEC 60950-1 SELV/LPS is required.

. Procure appropriate back-box. • 4-Gang box is required with 4-Gang raised device cover (Leviton catalog numbers BBG04-000 + WPG04-00R), however the device will also install with 4-Gang device box. 4-Gang masonry style boxes also are supported.

Note: Metal box must be used for proper RF shielding.

Note: Back box must be grounded.

- Note: Surface mount boxes are not supported. . Determine the network type the device will communicate on by
- referring to factory drawings. The Sapphire[™] wall mounted Touch Screen is compatible with the

LumaCAN[™]

- Ethernet (10/100Base T connection)
- RS-485 (BACnet/MSTP)
- Expansion modules,
- WIFI Ethernet (Leviton catalog number
- TSA00-WFI required). LevnetRF (Leviton catalog number
- TSA00-LRF required).
- I. Review all diagrams in this guide for device features, termination, and installation guidelines.
- . Back box location template
- Use the provided mounting template to locate your back box on the wall.

Installation:

Note: The components referenced by letters below are shown in Figure 1.

Note: Torque rating for all front panel screws is 4in-lb. Over-tightening screws will void the warranty.

1. Locate and install back-box (F) and device plate (E) on wall using provided mounting template. Face of device plate (E) must not extend into the room beyond finished wall surface and should be flush or slightly behind finished wall.

Note: Leviton recommends installation at +60"AFF for viewing and interaction with the screen by most adults. If wall box height lighting controls are desired, Leviton recommends the installation of any Sapphire[™] button station or any switch capable of providing momentary or maintained contact closures.

- Pull and prepare all network and data wiring into back box (F). Note: See termination diagrams on page two.
- Install Touch Screen mounting plate (D) to device plate (E) using (4) provided screws (H).
- 4. Using the included termination diagrams as a guide, make all terminations at rear of Touch Screen.
- Install Touch Screen (B) to mounting plate (D) using (4) provided screws (G).

Note: The Touch Screen ships with the screws pre-installed to the mounting plate, they have to be removed before attaching the Touch Screen to the mounting plate.

- Install the faceplate (A), with pre-installed decorative clear frame (J). These components are purchased and packaged separately from the touch-screen itself. The faceplate has a protective cover on it which should not be removed until owner occupancy.
- Install faceplate (A) on Touch Screen mounting plate (D) by hooking faceplate on top tabs, then rotating into place. To secure faceplate, back out face plate screws (I) until screw head (I)
- snugs into Touch Screen faceplate (A). DO NOT over tighten. . Apply power.
- When power is applied the following will happen: • Leviton Logo Boot Screen will be displayed. While the device is booting, the screen may blink out several times. The complete boot process can take between 1 and 15 minutes depending on the size of your network.
- The default screen will be displayed depending on your system configuration, the behavior of the On/Off buttons may differ. These buttons will turn on/off all lights in the area to which the touchscreen is assigned, or if unassigned, the entire network.
- Settings: In the bottom right hand corner of your screen is a settings icon. This icon is used to set basic configuration parameters for this device. Initial parameters will be set by Leviton Field Service at time of system commissioning.

Installation Continued:

A description of the configuration options are listed below. Time/Date: Should be set to the current date/time.

- **Network**: Network information and settings
- 1. LumaCAN[™] Node ID must be unique across all devices on this subnet. Valid values are 1-250. 2. LumaCAN[™] subnet – all devices on this subnet should be
- set to the same subnet. Valid values are 1-254. 3. IP information – If you have an Ethernet connection, this information must be set. Set to DHCP if you have a DHCP server, if not, set to a unique static IP address. Subnet and gateway information should be as determined by your IP staff.

Information: 1. Load Configuration – allows you to load a configuration file from a USB thumb drive (C). The file must be in the root of

- the drive. 2. Export Error Log – saves error log to a USB thumb drive, inserted into (C).
- **3. Edit** allows editing of a scene. Press the Edit menu command. Any editable component will be flashing at you. Select any editable component by pressing it with your finger. You will be presented with a screen that allows you to change the level of any assigned channel or group and add channels or groups. Make changes as needed. Press the Save button to save your changes and exit Edit mode. Cancel will close the editing

screen without saving changes. Sign-In: Enables access to configuration functions. The default username/password are as follows:

Username: administrator Password: 1234

Note: If your system has already been partially configured, the default user name and password may have changed.

10. Full System Configuration will be performed by a Leviton Field Commissioning Agent. For assistance with scheduling commissioning, please contact your Project Manager or LESFieldService@Leviton.com.

Dimensions

Specifications

SPECIFICATIONS	
Cat. No. TS007	
Power Input Voltage	+12-24VDC, Class 2 SELV
Power Input Current	950mA-600mA (950mA at 12V, 600mA at 24V)
Max Peripheral Output	100mA, voltage follows input voltage, Class 2 SELV
Display	7" Diagonal, TFT Active Matrix 18 bit Color, 800x480px, LED Backlight
Required Mounting	4-Gang box with a 4-Gang raised device cover preferred,4-Gang Device Back box, 4-Gang masonry style box
LumaCAN Network	Daisy Chain, Home-Run when repeaters are used, Category 6 or better required, TIA-568B termination preferred, 1,600' max run Length unless repeaters are used. (Leviton Cat. No. WIR06-01K or equivalent).
Ethernet Network	Star, Category 5 or 6 wiring, TIA-568B termination preferred
RS-485 Network	Belden 1502R, Belden 9829, or equivalent, Daisy Chain length depends on baud rate, use Leviton Cat. No. WIRLN-500 or equivalent.
Input/Output	Class 2 SELV

FCC COMPLIANCE STATEMENT:

The enclosed device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (i.) This device may not cause harmful interference
- (ii.) This device must accept any interference received, including interference that may cause undesired operation.

Trademarks

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Warrantv

LEVITON LIGHTING & ENERGY SOLUTIONS of Leviton Manufacturing Co Inc warrants its Dimmer Systems and Controls to be free of material and workmanship defects for a period of two years after system acceptance or 26 months after shipment, whichever comes first. This Warranty is limited to repair of replacement of defective equipment returned Freight Pre-Paid to Leviton Lighting & Energy Solutions at 20497 Teton Ave., Tualatin, Oregon 97062, USA. User shall call 1-800-959-6004 and request a return authorization number to mark on the outside of the returning carton, to assure that the returned material will be properly received at Leviton. All equipment shipped back to Leviton must be carefully and properly packed to avoid shipping damage. Replacements or repaired equipment will be returned to sender freight prepaid, F.O.B. factory. Leviton is not responsible for removing or replacing equipment on the job site, and will not honor charges for such work. Leviton will not be responsible for any loss of use time or subsequent damages should any of the equipment fail during the warranty period, but agrees only to repair or replace defective equipment returned to its plant in Tualatin, Oregon. This Warranty is void on any product that has been improperly installed, overloaded, short circuited, abused, or altered in any manner. Neither the seller nor Leviton shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the equipment. This Warranty does not cover lamps, ballasts, and other equipment which is supplied or warranted directly to the user by their manufacturer. Leviton makes no warranty as to the Fitness for Purpose or other implied Warranties.

