

EcoSystem 1 Button Wall Control

PART 1 – GENERAL

1.01 SUMMARY

- A. Scope: Provide, install and test all keypads as specified herein for the areas indicated on the drawings, specifications, and load schedules.
- B. Related Sections: Section 16580 (Ballasts), Section 16570 (Dimming Systems).

1.02 REFERENCES

- A. UL 20, UL 1472, CSA, NOM, ISO 9001

1.03 SYSTEM DESCRIPTION AND OPERATION

- A. Permanently installed, low-voltage wall-mounted dimmers
- B. Screwless, seamless wallplates

1.04 SUBMITTALS

- A. Submit manufacturer's standard catalog data giving all application, wiring, and installation information on basic components and wallplate kits. Provide test data and/or samples as required to demonstrate conformance with PART 2 of this specification.

1.05 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of 30 years continuous experience in manufacturing wallbox dimming products.
- B. Keypad shall be UL listed, CSA and NOM approved specifically for fluorescent loads. Manufacturer shall provide file card or certificate upon request.
- C. Manufacturer shall maintain ISO 9001 certification and provide a copy of the certificate upon request.

1.06 WARRANTY

- A. All devices shall be covered by a minimum one-year warranty.

PART 2 – EQUIPMENT

2.01 ACCEPTABLE MANUFACTURERS

- A. Lutron Electronics Co., Inc.

2.02 EQUIPMENT

- 1. Performance
 - a. Keypads shall provide full-range, continuously variable control of light intensity.

- b. Keypad shall incorporate night light LED for evening visibility of control.
- c. Keypad shall incorporate a programming LED to indicate when the control is in programming versus normal mode.
- d. Keypad shall be wired Class 2 only.
- e. Keypad shall return to 100% when double tapped.
- f. Keypad shall return to last light level when tapped once.
- g. Keypad shall maintain smooth and continuous dimming from 100% to Off.
- h. Keypad shall be thin profile with no exposed heatsink/yoke.
- i. Unless otherwise specified, controls shall have a gloss finish.
- j. Controls shall incorporate integrated infrared receivers for the purpose of wireless programming of wall controls or other devices.
- k. Controls shall not be susceptible to damage or loss of memory due to static discharge.
- l. Controls shall operate in an ambient temperature range of 0°C (32°F) to 40°C (104°F).
- m. Contractors shall install all backboxes with a minimum wallbox depth of 2.0 inches.
- n. Control shall be programmable to work in groups with other fixtures through push-button programming.
- o. Control shall output a binary signal for communication directly with digital ballasts or modules.

2.03 SOURCE QUALITY CONTROL

A. All controls shall be 100% function tested at the time of manufacture. Statistical sampling plan shall not be acceptable.

PART 3 – EXECUTION

3.01 INSTALLATION

A. Contractor shall furnish wall control & wallplate kits, labor and other services necessary for the proper installation of the devices as indicated on the drawings and specified herein.

C. Contractor shall run 3 18AWG wires from terminals of EcoSystem digital ballast to wall control.

D. Devices shall be installed utilizing manufacturer's recommended application, wiring and installation instructions.

E. Contractor to provide seamless wallplate covers per specification 2.02 for all devices ganged in a common box. Contractor shall provide barriers within the box where required by code.

3.02 FIELD QUALITY CONTROL

A. Twenty-four hours a day, seven days a week, global customer service and technical hotline available.

B. Supplemental information shall be provided by manufacturers Internet site.