DECORA®
COLLECTION BY LEVITON

SmartJack

Cat. No. NE100

24VDC
40mA, 1W

For use w/Leviton LCnet products

INSTALLATION INSTRUCTIONS

LEVITON.
Building A Connected World

DI-000-NE100-00A-Pilot

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
www.leviton.com

LEVITON.
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FEATURES

- Leviton's Decora® Style design
- Fits standard wall box
- Color conversion available
- Low-Voltage for easy installation
- Serial to RJ11 Cable included

INTRODUCTION

The SmartJack, Cat. No. NE100, is used in conjunction with software provided by Leviton to enable control of a Leviton lighting system from a personal computer. This product allows messages to be transferred back and forth from a user's personal computer to the LCnet system, allowing a user to have control of their own lights from the computer desktop. If there is a whole network of computers, then each person can control their own lights. To enable this, the computer connected to the SmartJack must be part of a network that supports HTTP.

DESCRIPTION

The SmartJack is a low-voltage Class II wiring device and installs in a regular wall box. There are two connections, a pluggable connector (on back of device) and a jack (on front of device) to use with the provided computer cable. The pluggable connector is used to connect the SmartJack to the LCnet system. The provided cable connects the SmartJack to the serial port of a personal computer. On one end of the cable there is a RJ-11 plug and on the other end a DB-9 connector.

There are two LED indicators on the face of the SmartJack. These indicators are used to display the state of communication on each of the connectors. See the "To Operate" section for a description of the functions of the indicators.

The Leviton Personal Dimmer and HTTP Server software provided works with Windows 95, 98, 2000 and NT 4.0. Instructions for installing the software are provided with the software files. Check Leviton website for updated software.

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device must not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

CAUTION: DISCONNECT POWER WHEN SERVICING FIXTURE OR CHANGING LAMPS.

CAUTION: THE SMARTJACK OPERATES OFF OF LOW-VOLTAGE (24VDC), SO CARE MUST BE TAKEN WHEN REPLACING A LIGHT SWITCH. CONSULT LOCAL BUILDING CODES AND REGULATIONS FOR PROPER LOW-VOLTAGE INSTALLATION.

TO INSTALL:

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!

2. Remove existing wallplate and switch or dimmer, if applicable

   CAUTION: IF APPLICABLE, ENSURE THAT CIRCUIT CONDUCTORS ARE PROPERLY CAPPED OFF WITH WIRE CONNECTORS AND REMOVED FROM WALL BOX.

3. Connect per appropriate WIRING DIAGRAM as follows: Insert each lead into appropriate Plug location by pushing firmly **(refer to Wiring Diagram 1)**. If using stranded wire, twist strands of each lead tightly (making sure that there are no stray strands) and push firmly into appropriate Plug location. Tighten the screws on the Plug making sure that no bare conductor shows. Connect Plug into Connector on the back of the SmartJack.
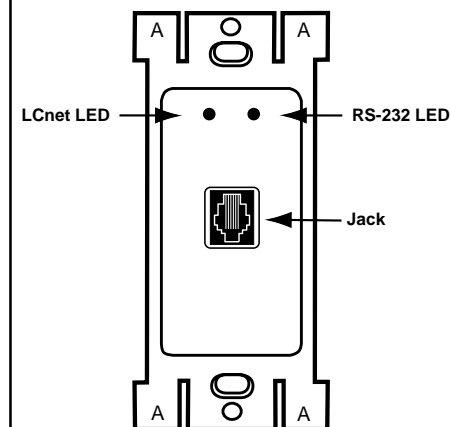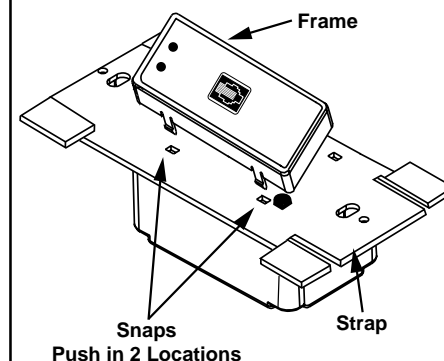

Figure 1 - SmartJack Functions

A A
LCnet LED — RS-232 LED
Jack
A A

Figure 2 - Color Conversion

Frame
Strap
Snaps
Push in 2 Locations

4. Carefully position all wires to provide room in outlet box for SmartJack. Mount SmartJack into box with mounting screws supplied.

   NOTE: The SmartJack mounting orientation is with the LED's above the jack opening.

5. Replace wallplate as follows:

- Remove "A" tab when using standard Decora® wallplate **(refer to Figure 1)**.
- Leave "A" tabs intact when using Decora® Screwless wallplate.

6. Restore power at circuit breaker or fuse.

7. Connect the DB-9 end of cable to the personal computer. Insert the RJ-11 (phone type) jack into the opening on the face of the SmartJack until the lever clicks into place. Install software on computer by following Software Installation Instructions. **INSTALLATION IS COMPLETE.**

COLOR CONVERSION PROCEDURE

The color of this device can be changed to suit your interior design requirements. Simply obtain a color conversion kit of the appropriate color from your Leviton distributor (a color conversion is supplied with the product). Proceed as follows (please note that wallplate must be removed).

1. Select the color of the face you desire.

2. The frame has snaps on its sides. Using a small screwdriver, **gently** remove the frame from the strap **(refer to Figure 2)**.

3. Take the new frame and position it properly to the strap. Line up the plastic snaps with the square holes in the strap. Insert the snaps on one side of the frame into the strap.

4. Firmly press sideways and down to slip the other snaps into place. The frame snaps in with an audible click. Ensure that all four snaps are secure. Replace Decora® wallplate. **The color conversion is complete.**

TO OPERATE

NOTE: The LED's will be lit ORANGE between 5 and 10 seconds after power is applied.

The SmartJack begins operation when power is applied, and the connections are made. It does not require any user intervention to operate other than the Leviton Personal Dimmer and HTTP Server software interface. Refer to Users Guide.

<u>LED Indicators</u> - There are two LED indicators, one for each port.

LED	Position*	Definition
RS-232	Right	Blink Red – message sent to computer
		Blink Green – message received from computer
LCnet Communication	Left	Blink Red – message sent to LCnet
		Blink Green – message received from LCnet

*NOTE: The SmartJack orientation is with the LED's above the jack opening.

TROUBLESHOOTING

- If NO LED's are lit after connecting the LCnet port; there is no power
  - Check wiring.

- If the client software is used to control the lights, but the Left LED does not blink green:
  - check Serial cable is connected to the computer
  - verify that the serial port works

- If a Controller is used to control the lights, and the Right LED does not blink green:
  - check wiring on the LCNet port
  - check wiring on the network wire pair

Refer to Installation Manual and User Guide for Troubleshooting and System Installation details.

Wiring Diagram 1 - Single Station Application

Back of SmartJack

To Power Pack

GND (Green)
CAN-L (Blue/White)
Not Used
CAN-H (Blue)
+24V DC (Green/White)

GND
CAN-L
Not Used
CAN-H
+24V DC