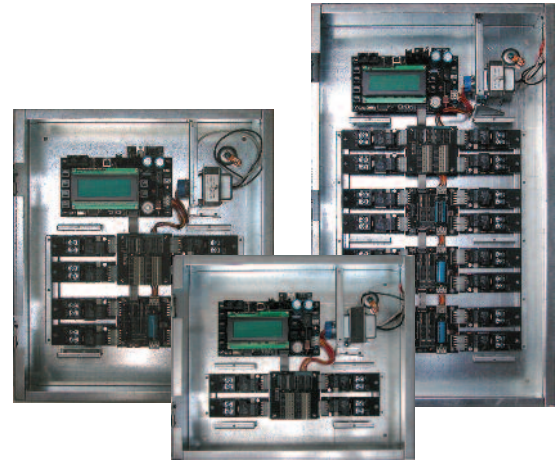




- 365-day programmable Lighting Control Panel
- Removable hinged locking door standard
- ILC LightSync™ switch and accessory ready
- Network up to 48 control points
- Panel sizes to accommodate 4, 8, and 16 relay outputs
- Available with 4 to 48 hardwired inputs
- 48 programmable relay groups, presets, timers
- Uses ILC's new cost-effective Softcross™ or APII 2-pole relay
- All ON/All OFF push buttons for relay override
- Daylight Savings Time adjustment and Astro Clock standard
- Optional Add-on Modules
- UL 916 Listed FCC approval for commercial use
- Title 24 certified, ASHRAE 90.1 compliant



## Overview

The next generation ILC Apprentice II programmable lighting control panel is redesigned with the best in mind. Network up to 48 control points and up to 32 LightSync™ devices via RJ-45 ports, connect to your PC via a on-board USB 2.0 port and control via Apprentice II Pro software— these are just a few of the updates built into the ILC Apprentice II. Add-on cards are easy to install and add capabilities like: BACnet, LonWorks, N2 or MODBUS interface, TCP/IP or modem interface, DMX control and DTMF telephone switching. The ILC Apprentice II lighting control panel retains the same friendly interface, solid reliability, the flexibility to easily comply with energy codes and ships complete.

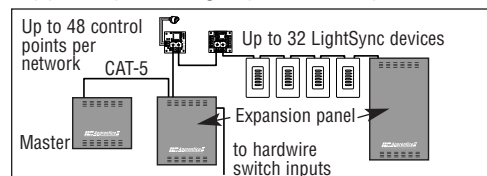
**Features**  
*(see Apprentice II Catalog for more details and optional devices)*

### Programming Options

- Integral keypad with 4-line LCD display
- Apprentice II Pro software

### Apprentice Network Capable

- Link multiple Apprentice II panels via CAT-5 cable to include up to 48 control points
- Supports up to 32 LightSync devices per network



### Relay Groups

- Relays may be assigned to any of 48 available groups
- Relay groups may be assigned to multiple Timers, Switch Inputs, and other panel functions

### Relay Presets

- Relays may be programmed to any of 48 presets available
- Presets may be controlled by Switch Inputs and Timers

### Open/Close Times

- Lighting Control Schedules may adjust based on business (retail) Open/Close hours
- Seven standard Open/Close times and 365 custom daily Open/Close times available
- Scheduled event may be programmed to occur before, after or at Open/Close times

### Relay Functions

- Each relay may be programmed for ON only, OFF only or ON/OFF control
- HID multilevel control (specialized output control for multilevel HID ballasts including warm-up sequence)

### Switch Types

- The ILC Apprentice II may be programmed to accept virtually any type of switch input, momentary or maintained

- Easy direct connection to motion and photo sensing devices via dry contact input or CAT-5
- Override inputs can Force ON, Force OFF or Hold Status any relay or group of relays
- Input disable based on time of day

### Switch Input to Relay Output Mapping

- All switch to relay settings are completely soft, requiring no field rewiring when changes are required
- Any switch can control any combination of 1 to 48 relays

### Automatic Power-Up Settings

- Relays may be programmed to automatically return ON or OFF after a power outage

### After Hours Sweeps

- Individual relay or groups of relays may be programmed to be swept OFF during non-operational hours

### Daylight Saving Time Adjustment

- Automatic adjustment for daylight saving changes (may be enabled or disabled from keypad or software)

### Astronomical Clock

- Automatic calculation of Sunrise and Sunset based on date and geographic position
- Scheduled events may be programmed to occur before, after or on an astro event

### Blink Alert

- Prior to a scheduled OFF event, lighting loads programmed for a Blink Alert will be momentarily turned OFF then back ON to alert occupants. To avoid the pending OFF sweep, the user simply turns their local switch ON again during the adjustable period (default is 5 min.) prior to the OFF sweep.

### Add-On Modules

- Easy to install add-on modules for applications requiring: DMX 512 control, Modicon® MODBUS BACnet, LonWorks, Metasys® N2 interface, ethernet, modem or DTMF telephone switching

INTELLIGENT LIGHTING CONTROLS, INC.

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Minneapolis, Minnesota 55439  
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www.ilc-usa.com



### Specifications

#### Physical:

- Apprentice lighting controllers are provided with pre-drilled mounting holes for easy mounting to unistrut framing or directly to wall
- All panels provided with a removable hinged locking door standard
- UL, NEMA-1 enclosure

#### Electrical:

- 120 or 277 VAC power supply ready

#### ILC SoftCross™ Single Pole Relays:

- 20 Amp ballast, 120 or 277 VAC
- 20 Amp resistive load, 120 or 277 VAC
- Available in Normally Open (NO) or Normally Closed (NC) configuration

#### ILC 2-Pole Relays:

- 20 Amp ballast
- 20 Amp resistive load
- 20 Amp general
- Up to 277 VAC/pole controlling 208/240/480 VAC circuits
- Normally Open (NO) contacts

#### Operating Environment:

- Location Interior space
- Operating Temp. 0° to 40° C
- Relative Humidity 10% to 90%  
Non-condensing

#### Certifications:

- UL, CUL
- FCC approval for commercial use
- California Title 24

#### Capacities:

- 4, 8 or 16 ILC SoftCross™ (SR-1) or APII 2-Pole (2PR) relays

#### Options:

- Additional switch input board(s)
- Add-on Modules: easy to install modules for applications requiring Modicon® MODBUS, BACnet, LonWorks, Metasys® N2 interface, DMX 512 control, ethernet, modem or DTMF telephone switching
- Flush mount enclosure border

#### Configuration:

- Soft configuration with greater than 50 year EEPROM memory retention in absence of power
- Minimum 45 day clock retention

### Ordering

Order the ILC Apprentice II controller

**ILC-APII - ① - ② - ③ - ④ - ⑤ - ⑥**

Sample: Order No. ILC-APII-04-0-A-TL-SR1-NO-FT = ILC Apprentice II standard controller in a size 04 enclosure with DTMF Telephone interface module, standard NO relays and flush trim ring.

- ① Consult the chart to determine the enclosure size required. All enclosures are NEMA-1 type with hinged locking cover standard. Fill in the size panel your installation requires; 04, 08 or 16

Enclosure Size Options				
Enclosure Type	Relays	Width	Height	Depth
Apprentice II 04	04	14 in.	12 in.	4 in.
Apprentice II 08	08	14 in.	16 in.	4 in.
Apprentice II 16	16	14 in.	24 in.	4 in.

- ② Fill in the number of additional AP II 4-input hardwire switch interface boards (ILC Part no. AP4I) if required (panels ship with one AP4I 4-input board installed); 08 will accept one additional, 16 will accept three (not applicable for 04 size)

- ③ Indicate if this is to be a standard (with display and keypad) or a network expansion panel (no display or keypad).  
A= Standard controller panel  
X= Network expansion panel

- ④ Use this space to order an optional add-on card to your Apprentice II.

BAC = BACnet      LON = LonWorks  
 MB = MODBUS      MX = DMX 512  
 N2 = N2 Metasys    MD = modem  
 TL = DTMF          ETH = ethernet

- ⑤ Indicate relay type: (NO or NC refers to default state of the relays in the event of a power out).  
 SR1-NO= Single, Normally Open  
 SR1-NC= Single, Normally Closed  
 NOTE: SR1 Relays are shipped as NO unless otherwise specified  
 2PR = 2-Pole Relay, Normally Open  
 NOTE: 2PR 2-pole relays are only available Normally Open

- ⑥ Indicate optional flush mount trim ring:  
 FT = include Flush Trim Ring  
 NA = no Flush Trim Ring

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*A full line of compatible products including control software, photosensors, a wide variety of momentary or maintained switches, custom engraved plates and more are available. Consult factory or your local ILC Representative for more information.*