



LIGHTING CONTROLS

PROGRAMMABLE LIGHTING CONTROL PANEL ILC APPRENTICE II



DESCRIPTION

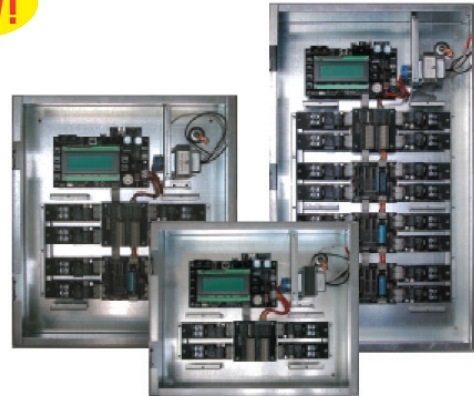
The **ILC Apprentice II** is a programmable lighting control panel that can network up to 48 control points and up to 32 LightSync™ devices via RJ-45 ports. The on-board USB 2.0 port connected to a PC with the Apprentice II Pro software allows control of the panel via a PC. Add-on cards are easy to install and add capabilities such as Metasys N2, Modbus, LonWorks, and DTMF telephone switching.

The **ILC Apprentice II** lighting control panel incorporates a user friendly interface, solid reliability, and the flexibility to easily comply with energy codes.

FEATURES

- Ships complete, easy to install
- Pre-drilled mounting holes
- Low cost
- 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

NEW!



- Available with 4 to 48 hardwired inputs
- 48 programmable relay groups, presets, and timers
- Uses ILC's new cost-effective Softcross (zero crossing) relays
- All ON, All OFF push buttons for relay override
- Daylight Saving Time adjustment and astronomical clock standard
- Optional add-on modules

SPECIFICATIONS

Enclosure	NEMA 1
Electrical	120 or 277 VAC power supply ready
SoftCross™ relays (zero crossing)*	20A ballast, 120 and 277 VAC 20A resistive load, 120 and 277 VAC
Configurations	Available in Normally Open (N.O.) or Normally Closed (N.C.) configuration
Capacities	4, 8, or 16 ILC SoftCross™ relays (ILC part number SR-1)
Operating environment	
Operating temp	32° to 112°F (0° to 50°C)
Relative humidity	10% to 90% non-condensing

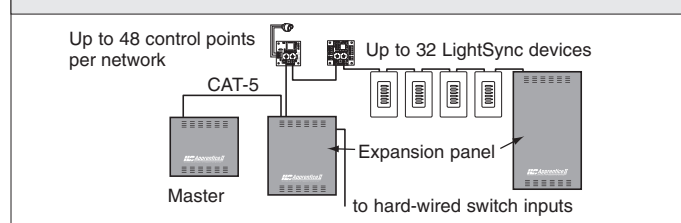
Options	Additional switch input board(s) Add-on Modules: easy to install modules for applications requiring Modbus or Metasys® N2 or LonWorks or DTMF telephone switching
Configuration	Soft configuration with greater than 50-year EEPROM memory retention in absence of power Minimum 30-day clock retention
Certifications	UL, CUL; FCC approval for commercial use; California Title 24; ASHRAE 90.1 compliant
Warranty	1 year

* Zero crossing technology is a means of controlling a relay so that it turns on or off as the AC sine wave passes through 0 volts. This action softens the startup and shutdown of equipment, prolonging the equipment's life span.

ENCLOSURE SIZE OPTIONS - in (cm)

Enclosure Type	Relays	Height	Width	Depth
Apprentice II 04	4	12.0 (30.5)	14.0 (35.6)	4.0 (10.2)
Apprentice II 04X	NA	12.0 (30.5)	14.0 (35.6)	4.0 (10.2)
Apprentice II 08	8	16.0 (40.6)	14.0 (35.6)	4.0 (10.2)
Apprentice II 08X	NA	16.0 (40.6)	14.0 (35.6)	4.0 (10.2)
Apprentice II 16	16	24.0 (61.0)	14.0 (35.6)	4.0 (10.2)
Apprentice II 16X	NA	24.0 (61.0)	14.0 (35.6)	4.0 (10.2)

DEVICES PER NETWORK





LIGHTING CONTROLS

PROGRAMMABLE LIGHTING CONTROL PANEL ILC APPRENTICE II

OPTIONAL ADD-ON INTERFACE MODULES (CARDS)

MB: Modbus interface module – The Modbus interface add-on module can easily be added to any **Apprentice II** lighting control panel to provide for integration to your Modbus communication and control system.

N2: N2 Metasys interface module – The Metasys N2 interface module can be integrated into a building automation system that includes the N2 communications protocol. The host system can then poll the status of the **Apprentice II** lighting control panel inputs and outputs and issue commands to the lighting control panels relay outputs.

LW: LonWorks interface module – The LonWorks interface add-on module can easily be added to any **Apprentice II** lighting control panel to provide integration with a LonWorks control system.

TL: DTMF telephone interface module – The DTMF telephone add-on module can easily be added to any **Apprentice II** lighting control panel to provide voice [rompted DTMF touch-tone telephone control and monitoring. DTMF control allows any touch-tone telephone to become a lighting control station. Through the use of DTMF control signals the system user can command relays or groups of relays ON or OFF or activate preset scenes, all from the convenience of any touch-tone telephone, including cellular phones.

BN: BACnet interface module – The Apprentice II BACnet interface add-on module can easily be added to any **Apprentice II** lighting control panel to provide integration with a BACnet control system.

ORDERING INFORMATION

MODEL	DESCRIPTION
ILC-APII	ILC Apprentice II Lighting Control Panel
ENCLOSURE TYPE / SIZE (refer to enclosure size options chart)	
04	Four relays
08	Eight relays (Accepts one additional IB-4 interface board)
16	Sixteen relays (Accepts three additional IB-4 interface boards)
PANEL TYPE	
S	Stand alone master panel with display and keypad
X	Expansion panel (no display or keypad).
ADDITIONAL INPUT INTERFACE	
	Number of additional 4-input hardwire switch interface boards (IB-4)*
OPTIONAL ADD-ON MODULES (one option only)	
MB	Modbus interface module
N2	N2 Metasys interface module
TL	DTMF telephone interface module
LW	LonWorks interface module
BN	BACnet/MSTP interface
BNIP	BACnet/IP interface
XX	No add-on
RELAY TYPE	
NO	Normally Open
NC	Normally Closed

ILC-APII - 04 S - 0 - TL - NO Example: ILC-APII-04S-0-TL-NO ILC Apprentice II standard controller in a 04 enclosure type with DTMF telephone interface module and 4 N.O. relays.

* All panels ship with one IB-4 board installed. One additional IB-4 can be added to the 08 enclosure type and three additional IB-4 can be added to the 16 enclosure type.

RELATED PRODUCTS

LS-PB-C	Addressable lighting control pushbutton switch series	WS-200	Occupancy switch sensors (120 VAC power)
SoftCross	ILC lighting control panel relay	DT-300	Dual technology ceiling occupancy sensor
LS-101	Daylight controller	PW, UW, DW	Occupancy switch sensor series
KSW	Toggle and pushbutton low voltage switch series	B120E-P	120 VAC to 24 VDC power pack

ACCESSORIES

MODEL	DESCRIPTION	MODEL	DESCRIPTION
AII-TL	AII Telephone OverRide touch and voice	AII-BNIP	AII BACnet /IP interface card
AII-N2	AII Metasys N2 Protocol interface card	AII	TCP/IP TCP/IP Interface card
AII-MB	AII MODBUS interface card	SR1-NO	AII Lighting panel relay (NO)
AII-LON	AII LonWorks interface card	SR1-NC	AII Lighting panel relay (NC)
AII-BN	AII BACnet/MSTP interface card	IB-4	AII 4 Input Exp Board