



FUNCTIONAL DEVICES, INC.
POWER-LINE CARRIER or WIRED DIGITAL CONTROL

Depth = 3.625"

MODEL **LCP**

Lighting Control Panel (Also rated for other loads - See Specifications.)

LCP4	contains UC321 & 1 AUC4H (4 relays)
LCP8	contains UC321 & 2 AUC4H (8 relays)
LCP12	contains UC321 & 3 AUC4H (12 relays)
LCP16	contains UC321 & 4 AUC4H (16 relays)

Knockouts of various sizes provided for ease of installation

TOP VIEW

Removable hinged cover with lock

DESCRIPTION

The LCP is a remote PLC linked load start/stop controller that can handle up to 16 individually addressed DOs. 16 DIs, one per address, are available for remote manual override. These may be connected to existing or retrofit switches including standard wall toggle switches via existing 12AWG wiring. Note: remote manual override inputs are not necessary in the operation of the LCP. The LCP is typically used in lighting control applications up to 20A Ballast and the relays are rated for other loads as well (see Specifications). Communicates over power lines up to 480Vac. May also communicate on dedicated lines such as twisted shielded pair (consult factory). The LCP is designed for two-way communication but will work perfectly well in a one-way communication system. In two-way communication, status of DI as well as DO is may be sensed. The LCP4, LCP8, and LCP12 are all equipped with a complete ribbon cable to allow installation of additional AUC4H (up to 4 AUC4H or 16 relays).

SPECIFICATIONS

- Power input from choice of 120 - 208 - 277 - 480Vac taps on transformer, 60 Hz, 40 VA (240Vac available special order).
- Relay ratings: Lighting -- 20A Ballast 120/277Vac, 10A Tungsten 120Vac; Resistive -- 20A 120/277Vac; Motor -- 1HP 120Vac, 2HP 277Vac.
- Signal-in by ac power circuit from 120Vac to 480 Vac or dedicated wire pair. Cannot be connected to a household GFI circuit.
- Minimum sensitivity is 10 mV peak-to-peak PLC. Absolute rejection of all signals outside of + / - 0.8 % of carrier center.
- PLC communication is one-way or two-way, redundancy and continuous refresh.
- Dry-contact input open circuit voltage = +24 Vdc. Short-circuit current = 0.03 mA.
Maximum wire run from wall switch to dry-contact inputs with 20-gauge wire is 50 feet.
- Diagnostic LEDs indicate the presence of power, the presence and validity of incoming PLC, the occurrence of a PLC answer, the instantaneous condition of the digital inputs and the instantaneous condition of the relay outputs.
- Operating temperature = 32° to 120° F, storage temperature = -40° to 185° F. Humidity range = 5 to 95 % (noncondensing).
- UL Listed under standard 916 Energy Management Equipment.

Input power to the Standard LCP4, 8, 12, or 16 is provided by a choice of 120 - 208 - 277 - 480 Vac taps on the transformer attached to the inside of the housing. For 240Vac, consult factory about this option. Typically the only setting required by the user is the address DIP switch, the selection for the state of the loads at power-up, and the setting for restoring the previous PLC command at power-up. Addressing is accomplished by setting DIP switch 1 switches 1-9 for the address of Relay 1 at the top of the panel, this is the "base" address. The remaining relays are addressed sequentially following the base address (for example, if the base address is 385, Relay one is address 385, Relay 2 is address 386, Relay 3 is address 387, and so on up through all relays installed in the panel). DIP switch 1 switches 11-12 set the number of AUC4Hs in the LCP (factory set but may be changed if AUC4Hs are added later) DIP sw 10 not used. DIP sw 2 switches 7 & 8 select the state of the loads at power-up, typically set both OFF to power-up all loads off. DIP sw 2 switch 12 selects restoring the previous PLC command or not, typically set ON to restore previous command. Unless the LCP is used in applications where special commands for blinking are used and manual switches are used to override upcoming OFF commands, DIP switch 2 will be factory set and should not be touched (consult factory about lighting applications).

