

Programmable Lighting Controls (PLC-1/PLC-2)

A trouble-free and easy-to-program lighting control designed primarily for poultry operations

The Programmable Lighting Control (PLC) allows you to automatically control and adjust light duration and intensity during the birds' life cycle.

The PLC is loaded with powerful and useful features. With multiple outputs and programs, the PLC allows you to easily design a control program that works for your operation.

PLC controls have variable AC outputs for dimming incandescent lights, general-purpose relays for turning lights on and off or operating devices such as feed augers, and variable 0 to 10 VDC outputs for operating DC-controlled fluorescent lights.

The LCD display shows status and setting information and the four-button keypad allows you to easily scroll through the information and program the control. The real-time clock and power-fail memory retention means you will never lose your settings and program status because of a power failure.

All this and more in one convenient and affordable unit!

Features

- ◆ Programmable lighting operation
 - ◆ Multiple lighting programs (multiple output staging)
 - ◆ Up to 365 days per program
 - ◆ Up to 20 segments (groups of days) per program
 - ◆ Up to 32 triggers (light/relay state changes) per day for each segment
- ◆ Variable AC outputs: two on the PLC-1; one on the PLC-2
- ◆ Two variable DC-signal outputs
- ◆ General-purpose relay outputs: two on the PLC-1; one on the PLC-2
- ◆ Alarm relay
- ◆ Expandable capacity using optional slave units
- ◆ Sixteen-character, two-line backlit LCD display
- ◆ Four-button keypad
- ◆ Real-time clock
- ◆ Power-fail memory protection
- ◆ Rugged enclosure (corrosion resistant, water resistant, and fire retardant)
- ◆ CSA approval
- ◆ Two-year limited warranty



PLC-1 electrical ratings

- ◆ Input: 120/230 VAC, 50/60 Hz
- ◆ Input fuse: 250 V, 1 A fast-acting glass
- ◆ Variable AC outputs (2): 1200 W at 120 VAC, 2300 W at 230 VAC
10 A at 120/230 VAC, general-purpose (resistive)
- ◆ Variable AC fuses (2): 15 A, 250 VAC ABC-type ceramic
- ◆ Relay outputs (2): 1/3 HP at 120 VAC, 1/2 HP at 230 VAC
360 W tungsten at 120 VAC
10 A at 120/230 VAC, general-purpose (resistive)
250 VA at 120 VAC for pilot-duty use
- ◆ Relay fuses (2): 12 A, 250 VAC ABC-type ceramic
- ◆ DC-signal outputs (2): 0 to 10 V, 30 mA
- ◆ Alarm relay: 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
0.2 A at 125 VAC; 1 A at 30 VDC, inductive load

PLC-2 electrical ratings

- ◆ Input: 120/230 VAC, 50/60 Hz
- ◆ Input fuse: 250 V, 1 A fast-acting glass
- ◆ Variable AC output:: 2300 W at 120 VAC
20 A at 120 VAC, general-purpose (resistive)
- ◆ Relay output: 20 A at 120 V tungsten, 230 V ballast
1 HP at 120 VAC, 2 HP at 230 VAC
- ◆ DC-signal outputs (2): 0 to 10 V, 30 mA
- ◆ Alarm relay: 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
0.2 A at 125 VAC; 1 A at 30 VDC, inductive load

Available options

- ◆ **PLC Saver:** stores a complete copy of all a PLC's configuration and settings. You can restore the configuration and settings any time, or use them to set up new PLCs in seconds!
- ◆ **Easy System:** combines the easy-to-use and intuitive *Easy PLC* software with a programmer. Easy PLC allows you to quickly enter configuration and programming information and then save it as a file or transfer it to a PLC Saver.
- ◆ **Slave units:** Slave units allow you to increase the lighting capacity of a PLC. Installation is simple and there is no additional configuration required; all slave units follow the programs and settings of the master control.
 - ◆ **PSU-20:** the Single-Phase Slave has a variable 20 A circuit and must be on the same phase as the master control.
 - ◆ **PLC-2SDC:** the Three-Phase Slave unit has a variable 20 A circuit and a 20 A relay. The PLC-2SDC can control lamps that are on phases other than the one used by the master control.

For more information about Programmable Lighting Controls, slave units, or other Phason products, contact your dealer or visit www.phason.ca.