

Simplicity, Accuracy, Solatel





SOLATEL LAMP PRO TIMERS

The Solatel Lamp Pro series of timers include both 120V and 240V models with the appropriate outlets. They are easy to use with a single Select knob that clicks to any of 16 time settings. Settings include an accelerated 18 hour day cycle running ON 6 hours / OFF 12 hours. Thirteen normal 24 hour day settings cover ON 8 / OFF 16 to ON 20 / OFF 4 in one hour increments for growing both short day and long day plants. Also included are continuously ON and OFF settings.

There are six outlets that are sequenced on and off. First two outlets turn on, 20 seconds later the next two, and 20 seconds after that the final two, going from left to right. This allows time for the start-up current surge (“inrush”) of two lamps to finish before the next two create their inrush current. This

reduces circuit breaker tripping and other electrical problems. Turn off is sequenced with 5 second delays. The Lamp Pro can also be used with pumps, fans, or other devices. If the circuit supplying power to the Lamp Pro cannot provide the rated current or the building circuit breaker cannot handle the inrush current at turn-on, then this will reduce the number of devices that can be controlled.

The LP-120S uses standard 120V type outlets and power cord plug. The LP-240S outlets are the type used for 240V equipment. This eliminates the risk of accidentally plugging a 120V device into a 240V outlet. An 8 foot power cord with unterminated wires allows hard wiring or the addition of a plug appropriate for an available outlet.

SPECIFICATIONS

GENERAL

Continuous time settings	OFF, ON
Accelerated 18 hour day setting (hours)	ON 6 / OFF 12
Standard 24 hour day settings (hours)	ON 8 / OFF 16, ON 9 / OFF 15, ON 10 / OFF 14, ON 11 / OFF 13, ON 12 / OFF 12, ON 13 / OFF 11, ON 14 / OFF 10, ON 15 / OFF 9, ON 16 / OFF 8, ON 17 / OFF 7, ON 18 / OFF 6, ON 19 / OFF 5, ON 20 / OFF 4
On sequence delay between outlet pairs	20 seconds
Off sequence delay between outlet pairs	5 seconds
Time accuracy	Dependent on power line 60 Hz frequency stability, highly accurate in North America
Warranty	One year parts and labor

MODEL SPECIFIC

	LP-120S	LP-240S
Operating voltage	120 VAC at 60 Hz	240 VAC at 60 Hz
Maximum current per outlet	15 Amps	6 Amps
Maximum total current	15 Amps	30 Amps
Outlet quantity and type	6 each NEMA 5-15R	6 each NEMA 6-15R
Power cord	6 foot with NEMA 5-15P plug	8 foot, unterminated



SOLATEL PWX POWER EXPANDERS

The Solatel PWX Power Expander series lets you control more devices without tripping circuit breakers. There are both 120V and 240V models with the appropriate outlets. Both models are controlled by a 120V controller or timer. A typical plug-in controller, such as Solatel's Plant Pro, is limited in the current that can be drawn from it because of the 15 Amp rating of the typical 120V outlet. This allows control of only a single 1000 Watt lamp. Adding a Power Expander allows control of additional lamps, pumps, fans, or other devices. Multiple Power Expanders can be used to control a large number of devices.

A Power Expander has two cords and 2 or 6 outlets (depending on model). The Power Cord is connected to the appropriate voltage source (120V or 240V, depending on model). This provides current to all of the outlets. The Trigger Cord plugs into a 120V controller or timer and provides the control signal which switches the outlets on or off. The Trigger Cord draws very little current and can therefore be plugged in to a controller along with other 120V devices being switched. The Trigger Cord can be

lengthened by using any standard 120V extension cord. If the circuit supplying power to the Power Cord cannot provide the rated current or the building circuit breaker cannot handle the inrush current at turn-on, then this will reduce the number of devices that can be controlled.

All Power Expanders use a standard 120V trigger cord. The PWX-1 uses standard 120V type outlets and power cord plug. The Power Cord is plugged into a 120V service. The PWX-D20 (not shown) is similar to the PWX-1 except it delays 20 seconds before turning on. This allows time for a device's start-up current surge to finish before the next device is turned on. There is no delay at turn off. The PWX-240 has outlets that are the type used for 240V equipment. This eliminates the risk of accidentally plugging a 120V device into a 240V outlet - a danger on products with 120V type outlets actually supplying 240V. The Power Cord is connected to a 240V service. The Power Cord has unterminated wires which allows hard wiring or the addition of a plug appropriate for an available outlet.

SPECIFICATIONS

GENERAL

Trigger cord	6 foot with NEMA 1-15P plug
Warranty	One year parts and labor

MODEL SPECIFIC

	PWX-1	PWX-D20 (not shown)	PWX-240
Operating voltage	120 VAC	120 VAC	240 VAC
Maximum current per outlet	15 Amps	15 Amps	6 Amps
Maximum total current	15 Amps	15 Amps	30 Amps
Outlet quantity and type	2 each NEMA 5-15R	2 each NEMA 5-15R	6 each NEMA 6-15R
Power cord	6 foot with NEMA 5-15P plug	6 foot with NEMA 5-15P plug	8 foot, unterminated
Trigger requirement nominal	120VAC at 0.02A nominal	120VAC at 0.02A nominal	120VAC at 0.03A



SOLATEL CO2-300 CO2 CONTROLLER



The Solatel CO2-300 automates CO2 dispensing. This avoids wasted CO2 and gives finer control over grow room CO2 concentration. The user simply sets a desired concentration level in PPM (parts per million) and the CO2-300 does the rest. This is ideal for the grower who does not use ventilation to control temperature or humidity. For growers needing that capability, see the Plant Pro.

The Sensor Unit is connected to the Control Unit by an 8 foot cable. The Control Unit plugs into any 120V outlet. If

you wish to defeat CO2 dispensing when your lamp is off, plug the Control Unit into your lamp timer or a timer that is coordinated with your lamp timer. The CO2 dispensing equipment (solenoid valve or generator) plugs into the 120V outlet on the front of the Control Unit.

The Sensor Unit has a display and 3 buttons (SET, +, and -). Normally it displays actual room CO2 PPM. Using the buttons, you can display and change the set point (also in PPM). While the room CO2 level is below the set point, CO2 is dispensed.

SPECIFICATIONS

Measurement range	0-2000 PPM CO2
Maximum drift (per year)	±75 PPM
Accuracy	±5% of reading or ±75 PPM, whichever is greater
Repeatability	±20 PPM
Response time	Less than 1 minute
Operating environment	0 to 50 ° C, 0 - 99% rH (non condensing)
Warm up time	5 minutes
Power requirement	120VAC, 0.05A maximum plus dispensing equipment current
Dispensing equipment outlet	1 each NEMA 5-15R, 120 VAC, 5 Amps maximum
Set point hysteresis	approximately 40 PPM
Warranty	One year parts and labor

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