

## PLANT PRO ENVIRONMENTAL CONTROLLER



### MAXIMIZE YOUR YIELD

Precision control of all the variables in your grow environment can greatly maximize YIELD. The microprocessor based Plant Pro™ hydroponics controller offers exact electronic timing for lighting, irrigation, ventilation, and CO<sub>2</sub> dispensing. Accurate measurements from environmental sensors allow Plant Pro™ to maintain the perfect environment for your plants to thrive in. Precision control of lamp, pump, temperature, humidity and CO<sub>2</sub>.

### EASY SETUP

The Plant Pro™ unique simplified interface allows for easy, quick setup using only two control knobs and a large digital display. One knob to select a setting, a display to show the setting, and a second knob to change the setting. Display shows time, timed function settings, sensor threshold settings, and actual sensor levels.

### PRECISION ENVIRONMENTAL SENSORS

Temperature, Humidity, CO<sub>2</sub>, and Flood sensors standard. Optional photocell (light) sensor for greenhouses. Sensors come with flexible 10 ft. cables that allow for optimum placement of sensors in the grow space. This provides for better accuracy and, if desired, allows the Plant Pro™ to be located outside the grow environment for easy monitoring and adjustment. Place the sensors for best measurement, place the controller for easy access. Optional 15 ft. extension cables increase the standard 10 ft. sensor cables to 25 ft. total.

### ADVANCED FEATURES ON LATEST MODEL

Day and night temperature settings, vent fan mode or sealed room mode where fan (independent of CO<sub>2</sub>) has Sensor and Timer Modes, timing from power line or internal timekeeping signal for a generator, overtemperature emergency shut down.

## MISCELLANEOUS CONTROL PRODUCTS

### THP-100 Atmospheric Controller (120V 15A)

Control temperature, humidity, and CO<sub>2</sub>. Has thermostat, humidistat and photocell. Two each fan and CO<sub>2</sub> outlets.



### CO2-300 CO<sub>2</sub> PPM Controller (120V 5A)

Shows CO<sub>2</sub> PPM level and you set desired value. Turns on outlet when below setting. Plug CO<sub>2</sub> tank or generator into outlet.



### FD-100 Flood Detector (120V 15A)

Detects leak of water or nutrient. Flood Sensor on 10 ft. cable. FLOOD ON outlet and FLOOD OFF outlet.



Solatel strives to bring high quality cutting edge products at a reasonable price to the indoor growing market. All our products are designed and manufactured in the heart of Silicon Valley, USA. One year warranty on Lamp Pro and PWX power control products, two years on all others.



Proudly Made  
in the USA

**Solatel Products Available From**



For more details and larger pictures go to:  
[www.solatel.com](http://www.solatel.com)

SOLATEL INC. GENERAL BROCHURE REV. 1.0

*Simplicity, Accuracy,*

**Solatel** 



# LAMP PRO AND PWX POWER CONTROL PRODUCTS

## POWER CONTROL OVERVIEW

Solatel manufactures the Lamp Pro series of timers and the PWX series of Power Expanders (which require an external timer or controller). There are both 120 Volt and 240V models. These products can be used with lamps, pumps, fans, or other devices. Some products include outlet sequencing. First two outlets turn on, 20 seconds later the next two, and 20 seconds after that the final two, from left to right. This allows time for the start-up current surge ("inrush") of two devices (such as 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. All 240V models come pre-wired with a 6 ft. power cable with unterminated wires for connection to power by hard wiring or the addition of an appropriate plug. Each device should have a dedicated circuit breaker at the rated current to avoid overloading circuits. The outlets are the type used for 240V equipment, NEMA 6-15R. A 120V plug won't fit in a 240V outlet, avoiding accidents.

## LAMP PRO TIMERS

The Solatel Lamp Pro series of timers are easy to use with a single Select knob that clicks to any of 16 time settings. These are: accelerated 18 hour cycle running ON 6 hours / OFF 12 hours, 13 popular 24 hour cycles, and continuous ON and OFF. Some researchers have found that an accelerated 18 hour cycle causes faster plant growth with reduced time to harvest compared to a normal 24 hour cycle. Outlet pairs are sequenced.

### LP120S Lamp Pro Timer (120V 15A)

Control six standard 120V outlets. Total current of all outlets is 15 Amps and can be divided between them in any way desired. Pre-wired with a 6 ft. power cord with a standard 120V 15A plug.

### LP240S Lamp Pro Timer (240V 30A)

Control up to six 1000 Watt 240V lamps. Power cable is 10 gauge connecting to 240V 30A.



## PWX POWER EXPANDERS

Power Expanders let you control more devices without tripping circuit breakers. They have 2 cords and 2 to 6 outlets. The power cord connects to the appropriate voltage source (120V or 240V). This provides current to all of the outlets. The trigger cord plugs into a 120V timer or controller. This provides the control signal which switches the outlets on or off. All trigger cords are 6 ft. with a 120V plug and draw very little current. Multiple Power Expanders on different circuit breakers can be used to control many devices.

### PWX-1, PWX-D20 (120V 15A)

Control two standard 120V outlets. Total current of both outlets is 15A. Pre-wired with a 6 ft. power cord with 120V 15A plug. Trigger cord turns on both outlets at once. PWX-1 has no delay, PWX-D20 has 20 second delay on from trigger, no delay off.

### PWX240-4 (240V 20A)

Control up to four 1000W 240V lamps. Power cable is 12 gauge connecting to 240V 20A. Trigger cord turns on all four outlets at once.

### PWX240-6, PWX240S (240V 30A)

Similar to PWX240-4 except control up to six 1000W 240V lamps. Power cable is 10 gauge connecting to 240V 30A. The PWX240-6 turns on all outlets at once, the PWX240S sequences them.

### PWX240-U (240V 20A + 120V 20A)

Similar to PWX240-4 except has two 120V 10A outlets that are always on. Power cable is 10 gauge 4 wire connecting to 240V 30A (neutral wire required). Trigger cord has no effect on 120V outlets. Typical 120V outlet uses: circulation fan on 24/7, timer controlling a pump, and even a timer or controller that triggers the 240V outlets on or off.



TIMER NOT INCLUDED

# GAS PRO CO<sub>2</sub> GENERATOR

## MAXIMIZE YIELD WITH GAS PRO

CO<sub>2</sub> ENRICHMENT CAN PROVIDE UP TO 50% INCREASE IN YIELD IN HIGH PERFORMANCE GARDENS

## CO<sub>2</sub> USAGE

CO<sub>2</sub> (carbon dioxide) is needed by plants for proper growth. CO<sub>2</sub> can be added by either a cylinder of CO<sub>2</sub> or by burning cheaper and easier to obtain propane or natural gas. A CO<sub>2</sub> generator is best suited for a larger grow room with temperature and humidity under good control. The Gas Pro is designed to be controlled by a timer or CO<sub>2</sub> controller, not for continuous operation.

## FEATURES

- Faster, more reliable, more efficient, electronic spark ignition. If pilot and main burners go out, main gas shuts off, spark re-lights pilot, then main gas turned on.
- Easy to add optional CO<sub>2</sub>-400 controller.
- Lower cost than CO<sub>2</sub> cylinder for larger grow rooms.
- Both Propane and Natural Gas models available.
- Two sizes - 6 burner and 12 burner.
- Twenty ft. long gas hose included with all models.
- Propane model includes regulator for tank.
- Heat exchanger for optional forced air cooling.
- Floor mount or hang from open eye hangers.



## PROPANE MODEL

Model Number	GP-06-LP	GP-12-LP
Number of Burners	6	12
BTU/hr (nominal)	16,764	33,528
CO <sub>2</sub> cu. ft./hr (nom.)	20	40

## NATURAL GAS MODEL

Model Number	GP-06-NG	GP-12-NG
Number of Burners	6	12
BTU/hr (nominal)	16,590	33,180
CO <sub>2</sub> cu. ft./hr (nom.)	16.5	33