

DC SMART SWITCH

Reliable DC Control and Reboot. 32x 3A Circuits.



Reboot, start or stop DC powered equipment in remote locations. Control up to 100 amps of power, from 12 to 72VDC. The switch is fully isolated, so positive, negative, or floating grounds can be used.

Save power. Simplify wiring. Automate remote telecom sites. Automate testing.

Control power over the web or by scripts. Use a browser or automate using SNMP, MODBUS, or the Rest API.

Eliminate truck rolls. Stop overloads, brown-outs, blown breakers and other power problems before they occur. Start devices in sequence automatically to avoid inrush current problems. Use the internal clock to schedule events and minimize power consumption.

Command your switch through a friendly web UI, via a Lua script, from a command line, or from your own app via the RESTful API. Customize the web controls.

The "Auto-Ping" feature monitors critical network devices, such as APs, telecom equipment, servers and routers. If a device goes down, the power controller will automatically reboot it with no user intervention. "Locked-up" devices are brought back to life. Truck rolls are eliminated.

Third generation product. Thousands built and fielded.

Try a public demo of the web UI at pro.digital-loggers.com. Authenticate with admin 4321

Better yet, call now for a risk-free trial.

- 32 individual 3 Amp circuits are switched in banks of 16. Two 50 Amp input breakers provide redundant A & B bus operation with 100 Amps total load. 32 self-resetting fuses protect the 3A outputs.
- Flexible. Wide input voltage range 12-72V. Automatic low-voltage cutout.
- Supports negative or positive ground and high or low-side switching. Can be special ordered in other configurations.
- Control microwave links, routers, APs, routers, appliances, IT equipment - any DC powered devices.
- Simple, reliable, plug-and-play operation. Sets up in minutes. Robust. Easy to use.
- Enable the Auto-Ping feature to intelligently reboot a locked-up AP, router, telecom switch or other device automatically, even during WAN outages.
- Internal clock for programmed scheduling. Keypad for local control. Ethernet for dependable connectivity. WiFi may be enabled as a client or access point.
- Fully programmable using Lua scripts. Customize it.
- Power-up recovery options add safety and flexibility: timed, sequential on, all-off, last state, etc.
- Low power draw: 4W idle, 26W all-on.
- Easy to wire up. Compression terminal inputs on 50A A/B bus, Screw terminal outputs on switched branch circuits.
- Extensive standards support: Rest API, HTTP, HTTPS, SSL, SSH, Curl, SNMP, MQTT, IFTTT, MODBUS & more. Open source.



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WEB INTERFACE

Controller: Pro Power Switch
Tue Mar 7 13:17:50 2017
Session expires in 00:24:37

#	Name	State	Action
1	Cable Router	ON	Switch OFF Cycle
2	UBNT AP	ON	Switch OFF Cycle
3	Cable Modem	ON	Switch OFF Cycle
4	Firewall 3	OFF	Switch ON
5	File Server 1	ON	Switch OFF Cycle
6	Network Switch	OFF	Switch ON
7	Lighting	ON	Switch OFF Cycle
8	Car Charger	ON	Switch OFF Cycle

Master Control
[All outlets OFF](#)
[All outlets ON](#)
[Cycle all outlets](#)

LUA PROGRAMING

```
-- Cycle an outlet every weekday at 2:30am
function WeekdayTimer()
while true do
wait_until({wday=weekday, hour=2,min=30, sec=0})
outlet[7].state = on
delay (30)
outlet[7].state = off
end
```

AUTOMATIC REBOOT

Controller: Pro Power Switch
Tue Mar 7 13:21:06 2017

Target(s)	Reboot Outlets								Script
	1	2	3	4	5	6	7	8	
8.8.8.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[Cycle]
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[Cycle]

AutoPing Properties
Enable AutoPing:
Time between pings: 30 seconds
Ping timeout to reboot: 150 seconds
Ping responses to enable autoping: 5 pings (0-1)
Times to attempt reboot: 5 tries (1-25)
Device reboot delay: 120 seconds

SPECIFICATIONS

Alert Beeper	73dBa at 12". Programmable.
Applications	Commercial, industrial power distribution and remote reboot. Test equipment. Indoor use only.
Circuit Breakers	Self-resetting 3A hold, 5A slow trip, 6A quick trip
Clock / RTC	15 year Li battery, under 2 grams
Controls / Display	Reset -to-factory-default switch, 2x16 Backlit LCD
Enclosure	Steel, double grounded. Vented 4 sides.
Ethernet Interface	10/100 autosensing, Static IP, TCP port selectable, 8 pin RJ-45 w/ internal FCC filter, WiFi 2.4Ghz
FCC Testing	Part 15 FCC ID 2ACIUPECR5
Humidity	8-80% RH Operating
Input Terminals	Four 50A copper compression lugs. Dual bus.
Output Terminals	32x12A screw terminals
Power Input	2x50A, 12-72VDC, Negative, positive, or floating ground
Operating Temperature	-30° to 170°F, -34° to 77°C
Options - Factory	Lower trip current breakers. External contactors.
Output Power	3A DC per port, self-resetting PTC fuses

Power Input Rating	12-72VDC 2x 50A
Power Output Rating	32x 3A DC
Password Transmission	Encrypted, base 64 or HTTPS
Power Dissipation	4W typical - 26W max
Power Fail Hold-Over	50ms minimum (all relays on)
Power-Up Modes	Last used settings, all power on or off, sequential on or run user-script ~30s after power-up
Relay Specs	30A @ 48VDC 12VDC coil
Standards Support	RESTful API Design HTTP, HTTPS, SSH, SSL Lua, cURL, SNMP, MQTT IFTTT, Alexa, MODBUS
Surge Protection	82V 2500A Metal Oxide Varistor
Size	1.75 (1 RU) x 9.0 x 19.0"
Weight (packed)	Single unit 11lbs 4.8kg
WiFi	Atheros 9331 2.4G 802.11n RP-SMA -2.4GHz
FCC Note:	The switch may only be used with (1) the mfr. supplied antenna (Gain: 2.0dBi), or (2) a 50 Ohm antenna of equal or lesser gain.