

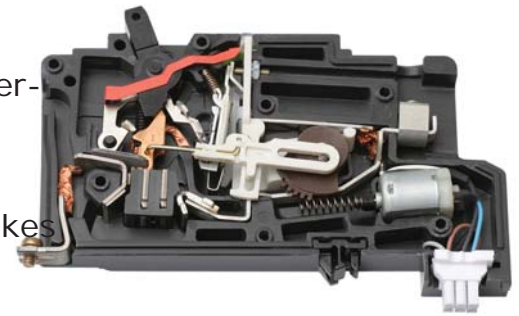
# LynTec RPC Series Panels

## THE MOST COMPLETE SELF-CONTAINED ELECTRICAL CONTROL PANEL AVAILABLE

The patent pending RPC control system is available for controllable circuit breaker panels based on the Square D PowerLink hardware platform. Every RPC panel is shipped as a complete hardware/software package and ready to install.

Standard Features on all RPC panels include:

- ❑ Built-in web server with browser interface for super-easy set up and smart phone, tablet or computer control and monitoring
- ❑ No on-site commissioning required, and LynTec takes the trouble calls direct.
- ❑ Built in scheduling program with astronomical clock and up to 84 available schedules.
- ❑ Built in contact closure inputs for wall or sensor operation (up to 38 inputs).
- ❑ Can be interfaced with any control system that communicates individual circuit addresses in DMX, sACN, HTTP, Telnet, BacNET or RS-232
- ❑ Seamless integration into existing building management systems.
- ❑ Circuit selectable load-shedding feature standard
- ❑ Circuit level sequencing with selectable step-rates standard (sequence reverses off)
- ❑ Circuit selectable auto-on egress lighting feature standard
- ❑ Brownout (under-voltage) protection with automatic shut-down and controlled restart.
- ❑ Motorized breakers available in 15, 20, and 30 amps, 1, 2, and 3 poles.
- ❑ ETL Listed to UL standards 459, 508A, & 924



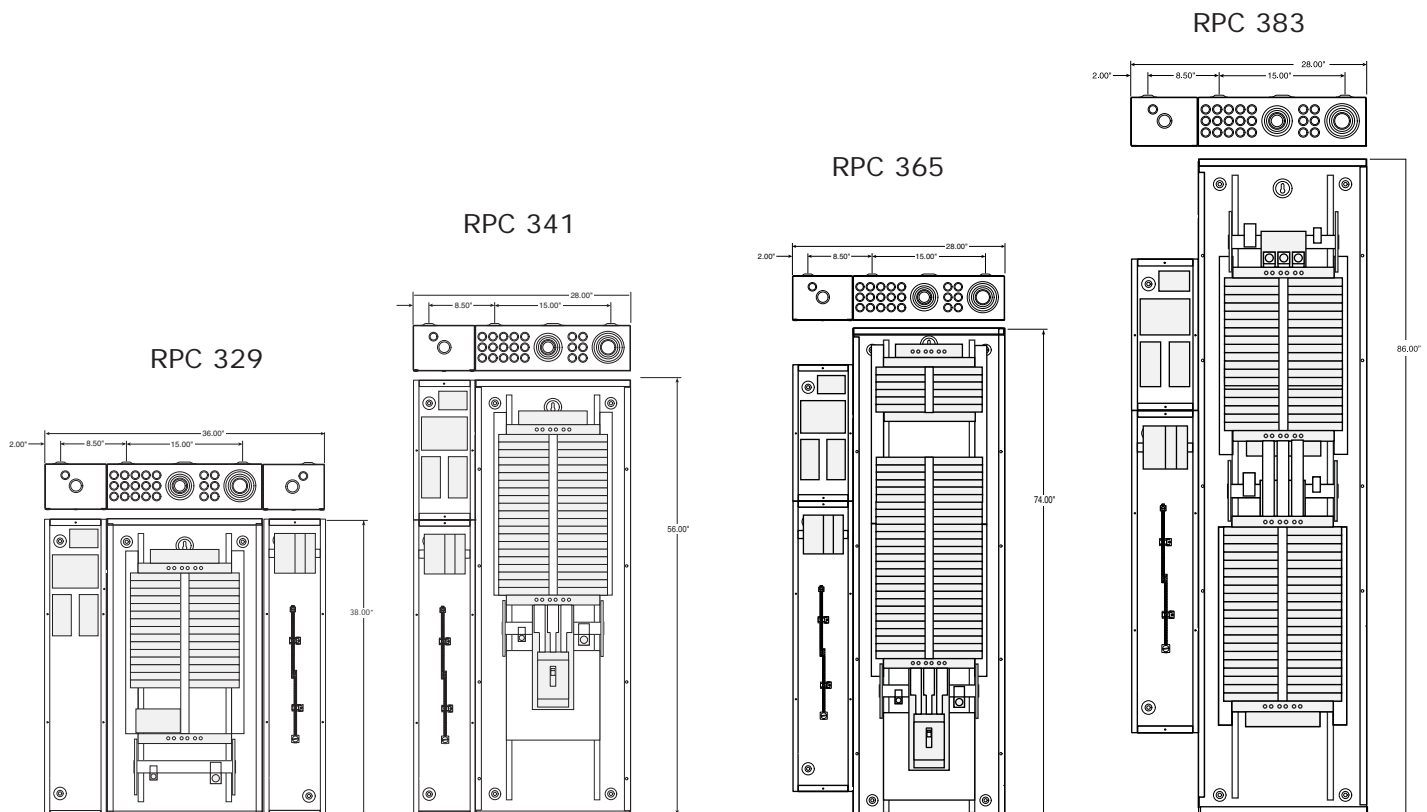
Plugs in - NO EXTRA WIRING



# OPTIONAL FEATURES

- ❑ Branch circuit current monitoring and reporting via Modbus or IP
- ❑ SurgeX in-panel surge elimination modules
- ❑ Contactor control via optional I/O-R outbound signaling relay card
- ❑ Outlet control via optional I/O-R outbound signaling relay card
- ❑ NEMA 3R outdoor enclosure
- ❑ Feed-thru lugs
- ❑ Sub-feed lugs (MLO panels only)
- ❑ Integrated Power Centers (IPC) with built-in transformer
- ❑ 100-600A MLO and MCB panels
- ❑ 30-84 space panels
- ❑ Integrated whole panel surge protection (SPD)

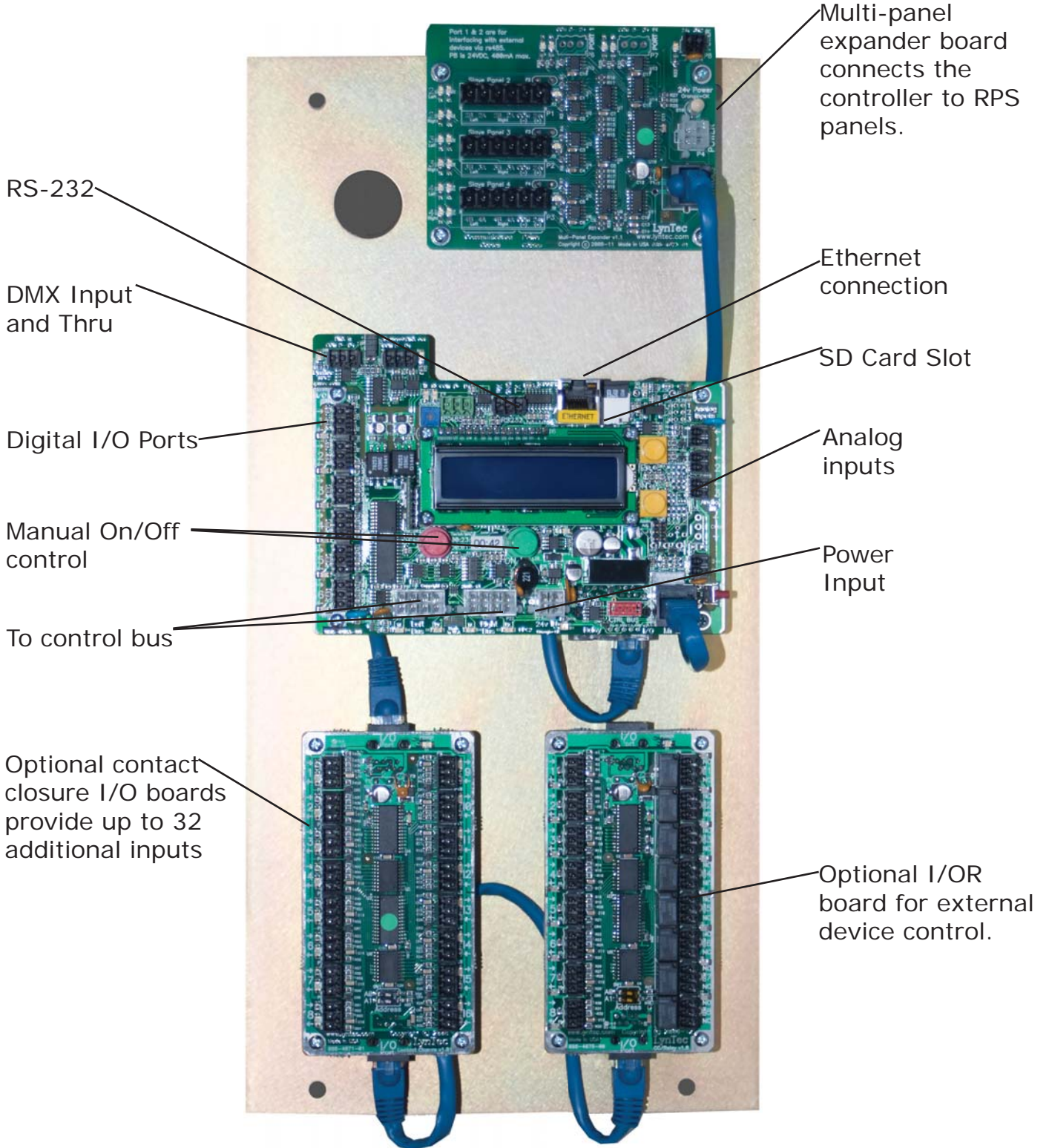
# STANDARD RPC CONFIGURATIONS



# RPC CONTROLLER

The LynTec controller increases interface options, simplifies programming, and adds remote status monitoring.

Easy setup for sequential system control for audio systems, or individual circuit control for non-dimmed lighting circuits.





# RPC 341

G3 circuit breaker is rated for 200,000 on/off/on cycles--surpassing UL requirements.

LynTec controller provides built-in web server for remote setup, control and monitoring

I/O contact closure boards and I/OR relay board

Power supply and buffer improves system performance and provides for automatic load shedding and brownout protection.

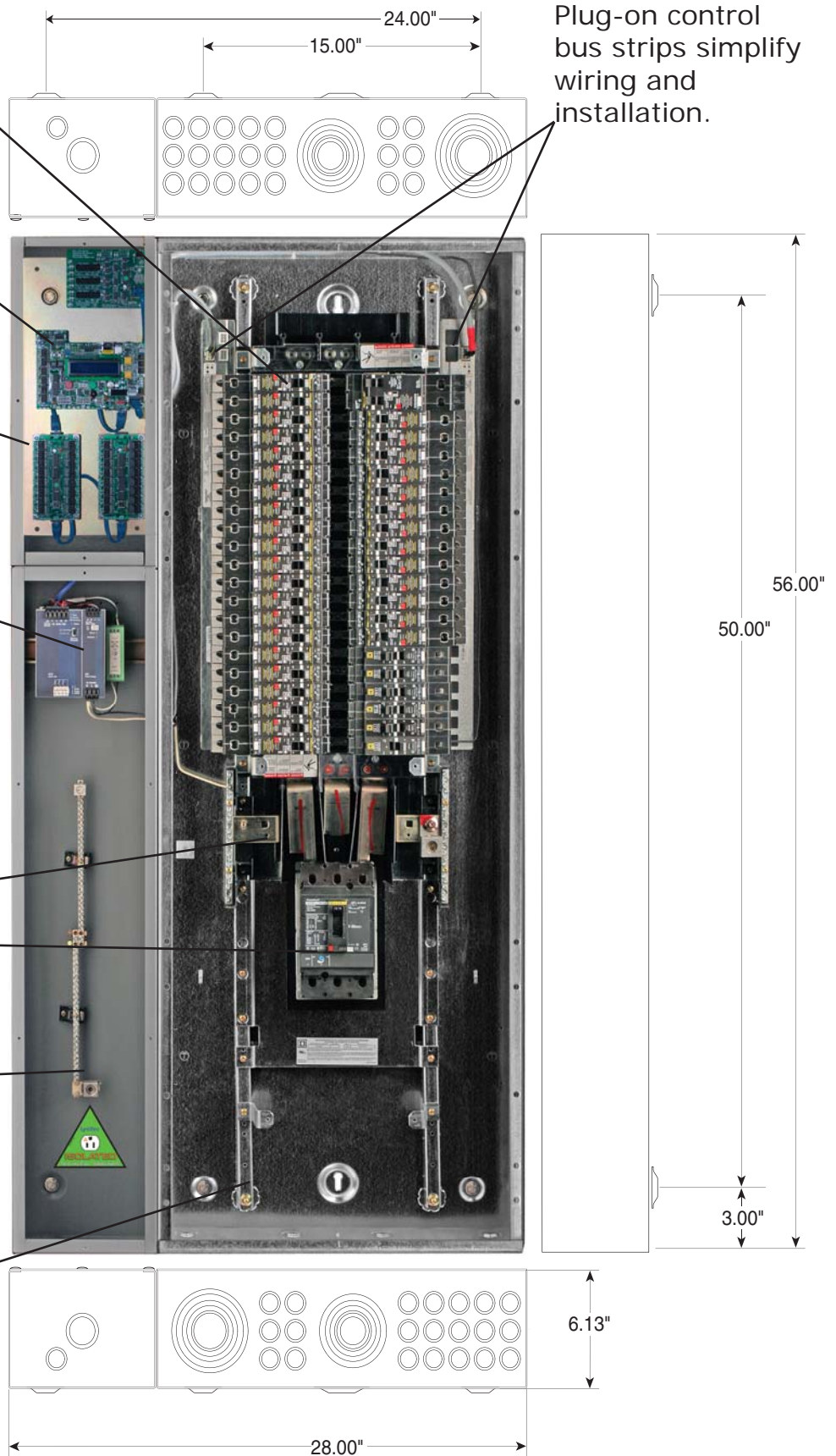
200% Neutrals standard

225A Main Standard (MLO and other MCB sizes optional)

Isolated technical ground bar reduces electrical noise and improves sound system performance

Removable electrical interior to assist installation

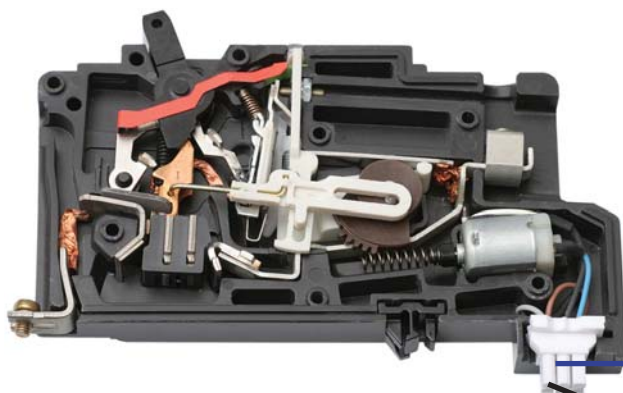
Plug-on control bus strips simplify wiring and installation.



# SQUARE D MOTORIZED BREAKER TECHNOLOGY

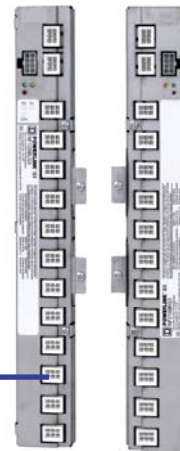
Square D Powerlink G3 Control Buses provide the interface between the system controller and remotely operated circuit breakers. Specifically, they distribute 24Vdc switching power and control signals to switch remotely operated circuit breakers and report circuit breaker status back to the system controller.

Square D G3 motorized breakers are available in denominations of 15, 20 and 30 Amps in one, two or three poles. Each G3 motorized breaker requires no control wiring.



Plug-in control bus eliminates additional low voltage wiring.

Control Connector



## TECHNICAL INFORMATION

### Breaker Information

Voltage	120Vac	240Vac	480/277Vac
Interrupting Capacity	65 kAIR	65 kAIR	14 kAIR
Terminals	(1) #14 - 8 AL or (1) #14 - 8 CU		
Standards	UL Listed 489, NEMA Standard AB-1-1986, CSA Standard 22.5		

### Control Bus Information

Operating Temperature (external panelboard ambient)	23°F to 104°F (-5°C to 40 °C)
Storage Temperature	-4°F to 185°F (-20°C to 85°C)
Operating Humidity	5% to 95% (non-condensing)
ESD Immunity	IEC 1000, Level 4
RF Susceptibility	IEC 1000, Level 3
Electrical Fast Transient Susceptibility	IEC 1000, Level 3
Electrical Surge Susceptibility, power line	IEC 1000, Level 4
Electrical Surge Susceptibility, interconnection lines	IEC 1000, Level 3

# MODELS AND OPTIONS

## 30 CIRCUIT PANELS

### Master Panel:

- RPC 329 (100A main standard, max main size 125A, MLO available)

### Slave Panels:

- RPS 330
- RPS 330 ITG (Isolated Technical Ground)

## 42 CIRCUIT PANELS

### Master Panels:

- RPC 338 (for main breakers <100A)
- RPC 341 (125A, 150A, 175A, 200A, 225A and MLO available)
- RPC 341 M400 (400A main breaker and MLO available)

### Slave Panels:

- RPS 339 (for main breakers <100A)
- RPS 342 (125A, 150A, 175A, 200A, 225A and MLO available)
- RPS 342 M400 (400A main breaker or MLO)
- RPS 339 ITG (for main breakers <100A)
- RPS 342 ITG (125A, 150A, 175A, 200A, 225A and MLO available) (includes isolated technical ground)
- RPS 342 ITG M400 (400A main breaker and MLO available) (includes isolated technical ground)

## 66 CIRCUIT PANELS

### Master Panel:

- RPC 365 (125A, 150A, 175A, 200A, 225A and MLO available)
- RPC 365 M400 (400A main breaker and MLO available)

### Slave Panel:

- RPS 366 (125A, 150A, 175A, 200A, 225A and MLO available)
- RPS 366 M400 (400A main breaker or MLO)
- RPS 366 ITG (125A, 150A, 175A, 200A, 225A and MLO available) (includes isolated technical ground)
- RPS 366 ITG M400 (400A main breaker and MLO available) (includes isolated technical ground)
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## 84 CIRCUIT PANELS

### Master Panel:

- RPC 383 (400A MLO)

### Slave Panel:

- RPS 384 (400A MLO )

# WEB ENABLED USER INTERFACE

Every RPC controller has a web server built in, so there is no software to buy, load or program. Simply plug in a network connection to the RPC controller, take the IP code off the LCD screen, and any browser enabled device on the network can load the IP address and access the RPC user interface (provided they have the user name and password).

## CONTROL IS AS EASY AS CLICKING A BUTTON!

Global controls allow you to easily control all breakers regardless of zone.

Status indicators show which emergency features are activated

Easy to read breaker status shows if the breaker is on, off, tripped, manually overridden or failed.

Empty spaces or unmotORIZED breakers indicated

Relevant system information

<b>LynTec</b>	Remote Power Controller (RPC-2) LynTec Test Job 4/24/2015 14:26:38 Master panel temp: 80°F/27.0°C	Hardware Version: 2.0 Firmware Version: 2.30c Web Version: Network: Connected	Monitored VAC: 121.0 VAC Logic Core(3.3v): 3.3 v Peripherals(5.0v): 5.0 v Cap Buffer(24.0v): 24.0 v	DMX512: Inactive sACN: Inactive AC Monitoring: Disabled SD Storage: Disabled
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Status Control Setup Support Event Log Logout

Panel: Panel A Date: 1-Jan-12

CIR	ADDR	ON	TRIPPED	ADDR	CIR
1	Breaker 01	1	ON	22	Breaker 16
3	Breaker 02	2	ON	23	Breaker 17
5	Breaker 03	3	ON	24	Breaker 18
7	Breaker 04	4	ON	25	Breaker 19
9	Breaker 05	5	ON	26	Breaker 1A
11	Breaker 06	6	ON	27	Breaker 1B
13	Breaker 07	7	ON	28	Breaker 1C
15	Breaker 08	8	ON	29	Breaker 1D
17	Breaker 09	9	OFF	30	Breaker 1E
19	Breaker 0A	10	OFF	31	Breaker 1F
21	Breaker 0B	11	ON	32	Breaker 20
23	Breaker 0C	12	ON	33	Breaker 21
25	Breaker 0D	13	ON	34	Breaker 22
27	Breaker 0E	14	ON	35	Breaker 23
29	Breaker 0F	15	ON	36	Breaker 24
31	Breaker 10	16	ON	37	Breaker 25
33	Breaker 11	17	ON	38	Breaker 26
35	Breaker 12	18	ON	39	Breaker 27
37	Breaker 13	19	NON-EMPTY	40	Breaker 28
39	Breaker 14	20	ON	41	Breaker 29
41	Breaker 15	21	ON	42	Breaker 2A

**Global Controls**

All Circuits On  
All Circuits Off  
Hurry-Off

**Status**

E. Shutoff  
E. Lighting

**Circuit Legend**

Status Only

ON  
OFF  
TRIPPED  
MANUAL ON  
FAILURE

Controllable

ON  
OFF  
TRIPPED

Panel Numbering  
Circuit Address

Circuit address color corresponds to the assigned zone. Individually control zones by DMX, sACN, IP or contact closure

Click here to control the zone

One click individual circuit control

Multi-pole breakers

### I/O Trigger Controls

ON	CIR	ADDR	CIR
ON	43	APC UPS	1
ON	44	Switched Outlet	2
ON	45	LynTec PDS-10	3
ON	46	Sequencer	4
ON	47		5
ON	48		6
ON	49	High Current	7
ON	50	Latching Contact	8

External devices can be integrated into the RPC interface using the I/O board



# RPC USER INTERFACE SETUP PAGE

Setting up global commands, circuit zones, sequencing queues, schedules etc. is so simple with the RPC interface that no commissioning is required by the factory. Watch our set-up videos and you're certified! All of the set up commands are clicking boxes and picking out options from drop-down menus. Here are a few examples from our setup/panels page.

One click saves changes

Choose which breakers open or close in the event of an emergency or brownout

Choose the numbering and addressing scheme to fit your design

Select which global controls and emergency features to utilize

Zones can be assigned to contact closers or schedules

Add breakers to a zone by clicking the "Edit Zone" button and then clicking the breaker

Enable up to 12 zones

The screenshot displays the LynTec RPC User Interface Setup Page. At the top, there are status bars for Remote Power Controller (RPC-2), Hardware Version (3.0), Monitored VAC (120.7 VAC), and DMX512 (Inactive). Below these are navigation tabs: Status, Control, Setup, Support, Event Log, and Logout. The main interface is divided into several sections:

- Save Changes:** A button to save the current configuration.
- Scan New Circuits:** A button to scan for new circuits.
- Circuit Numbering:** Radio buttons for Left-Right, Top-Bottom, and Bottom-Top.
- Addressing Scheme:** Radio buttons for Left-Right, Top-Bottom, and Bottom-Top.
- Global Controls:** Checkboxes for All Circuits On, All Circuits Off, Hurry-Off, E. Shutoff, E. Lighting, Audio, Brownout, and various Enable/Disable Recovery options.
- Brownout VAC:** A panel with dropdowns for Nominal (120), Low (<20%) (96), and Recovery (<10%) (108).
- Circuit Legend:** A legend for Non-Motorized or Empty, Configurable, and Checkboxes (E, B, L).
- IOR Trigger Controls:** A table for configuring IOR triggers with columns for RELAY, E, L, B, ADDR, DESCRIPTION, CIR, and RELAY.
- Main Circuit Table:** A large table with columns: CIR, DESCRIPTION, ADDR, B, L, E, CIRCUIT, CIRCUIT, E, L, B, ADDR, DESCRIPTION, CIR. It lists 42 breakers (Breaker 01 to Breaker 2A) with various settings.
- Zone Control:** A panel for selecting a zone, then circuits, and configuring options like Name/Seq and Options.

Editable text fields

External devices may be assigned to zones just like breakers