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

800-724-4047 www.LynTec.com
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.

- DMX Input and Thru
- Manual On/Off control
- To control bus
- Optional contact closure I/O boards provide up to 32 additional inputs
- Multi-panel expander board connects the controller to RPS panels
- Ethernet connection
- SD Card Slot
- Analog inputs
- Power Input
- Digital I/O Ports
- Optional I/OR board for external device control
- RS-232
- SD Card Slot
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.

TECHNICAL INFORMATION

Breaker Information

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120Vac</th>
<th>240Vac</th>
<th>480/277Vac</th>
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</thead>
<tbody>
<tr>
<td>Interrupting Capacity</td>
<td>65 kAIR</td>
<td>65 kAIR</td>
<td>14 kAIR</td>
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<td>Terminals</td>
<td>(1) #14 - 8 AL or (1) #14 - 8 CU</td>
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<tr>
<td>Standards</td>
<td>UL Listed 489, NEMA Standard AB-1-1986, CSA Standard 22.5</td>
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Control Bus Information

| Operating Temperature (external panelboard ambient) | 23°F to 104°F (-5°C to 40 ºC) |
| 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)

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.

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.

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