

ARCHITECT'S and ENGINEER'S SPECIFICATIONS
RPC Series Panelboards

1. All AC power for the AV systems shall be supplied from a source capable of being remote controlled from multiple locations.
 - a. Each panel controller shall be capable of TCP/IP communication via Ethernet. Built-in web server shall be accessible using a standard web browser
 - b. DMX-512 or RS-232 serial communications interface to permit control by other devices.
2. Each master control panel shall meet or exceed the following capabilities:
 - a. Up to Thirty-eight (38) 3-wire input/output terminals for connection to external low voltage control devices. Configurable for N.O., N.C., 2-wire maintained toggle, 2-wire momentary toggle, 2-wire momentary on, 2-wire momentary off, or 3-wire momentary operation.
 - b. Direct control of up to 167 motorized branch circuits in a master/slave configuration.
 - c. Contain a power supply module, capacitive buffer module, and controller; to power and control up to (8) control busses.
 - d. Provide true status feedback by monitoring branch circuit breaker status based on actual system voltage at line side terminal.
 - e. Accept remote commands through the facilities Ethernet infrastructure.
 - f. Time of day scheduling capability.
 - g. Zone/group control capability where assigned breakers may be triggered together to change states without time sequence delay.
 - h. Capable of accepting downloadable firmware so that the latest production features may be added in the future without replacing the controller module.
3. Time between sequence steps shall be adjustable from 25 milliseconds to 8 minutes.
4. During the off cycle, the system must reverse the power-up sequence to prevent transients from being amplified and harming the loudspeakers.
5. The system shall have brownout (undervoltage) protection; monitoring the line voltage and triggering an automatic shutdown if the line voltage drops below 95 volts for more than 2 seconds. The system shall automatically re-sequence circuits to on state after power resumes and remains above 105 volts for more than 2 seconds without operator intervention. Breakers shall have the ability to be individually omitted from brownout protection.
6. The system shall have emergency shutdown capability triggered by external contacts or the sound system operator. Breakers shall have the ability to be individually omitted from emergency shutdown.
7. Non-motorized circuits, as required, shall be supplied from the same AC source so that a single lever main circuit breaker is dedicated to the sound system.
8. Isolated technical ground bar shall be standard on master panels and optional on slave panel(s).
9. Three phase sequenced panelboards shall have 200% neutrals.
10. Single phase sequenced panelboards shall have a single neutral.
11. All branch circuit breakers shall be bolt-on.
12. Panel shall have the option of 480/277 Vac operation.
13. Motorized branch circuit breakers shall be capable of providing overcurrent protection of 10, 20, or 30 amperes to 1,2, and 3-pole loads.
14. Manufacturer shall warrant specified equipment to be free from defects in materials and workmanship as follows: at least (15) months from date of purchase for line voltage equipment; at least (5) years from the date of purchase for control electronics.
15. The AV power panels shall be the LynTec model RPC or RPS series Remote Panelboard.

LynTec — 800-724-4047 — www.lyntec.com

Models:

Single Phase, 65k AIR: **RPC 129, RPC 141, RPS 142, RPS 142 ITG, RPS 341 ITGP**
Three Phase, 65k AIR: **RPC 329, RPC 341, RPC 338, RPS 342, RPS 342 ITG, RPS 342 ITGP**