

Model: RPC-3N1

Remote Power Control – Low Voltage, (surface-mount)

Description:

Lowell Model RPC-3N1 remote power control may be combined with a variety of switches, modules, and/or sequential control devices (manufactured by Lowell or others) to provide a versatile low-voltage method of turning specific equipment on and off from a remote location. The ability to safely control AC power distribution without directly accessing equipment minimizes the potential for accidental or unauthorized system modifications, adjustments, or vandalism. System integration applications include commercial, educational, entertainment, government, and religious facilities where remote power control is required.

Model RPC-3N1 is a 15-amp control unit with circuit breaker, power supply, relay, three individually controlled duplex receptacles, one "always hot" duplex receptacle, barrier strip connections, and a 24VDC output for powering remote indicators. Activation of the three individually controlled duplex outlets is accomplished via contact closures between the common terminal and the numbered control terminals.

The remote power control is typically installed in close proximity to the equipment that is to be remotely switched; either in the rear of an equipment cabinet or mounted to the back of a conventional 2U rack panel. Low voltage 3-conductor cable is then run from the RPC-3N1 terminal strip to one or more RPS Series control switches or to a sequence controller and one or more RPS Series switches. The steel chassis is finished in black epoxy paint. Size is 16"L x 3"W x 2.5" D. The unit includes a 6-foot cordset and NEMA 5-15 molded plug.

Typical wiring application diagrams for a remote power control system using Model RPC-3N1 are shown on page 2.

Features:

- 15A power control combines with low voltage switches to achieve remote on/off triggering of AC equipment.
- Includes circuit breaker, power supply, relay, three individually controlled duplex receptacles, one "always hot" duplex receptacle, barrier strip connections, and a 24VDC output.
- Small size surface mounts nearly anywhere including a 2U rack panel.
- Low voltage connections allow for cost effective wiring and installation.
- Made in the U.S.A.

A & E Specifications:

Device for remotely controlling AC power shall be Lowell remote power control Model RPC-3N1. Device shall include a power supply and relay housed within a 16"L x 3"W x 2.5"H steel chassis. Model shall include 4 duplex outlets (3 switched, and 1 unswitched) with a power rating of 15A. Power control device shall terminate with a 6 foot cord and NEMA 5-15 plug. Device shall include over-current protection for 15A.

Single Switch Applications (maintained closure): Remote switching device for single switch applications shall be Lowell maintained wall switch Model _____ or maintained rackpanel switch Model _____.

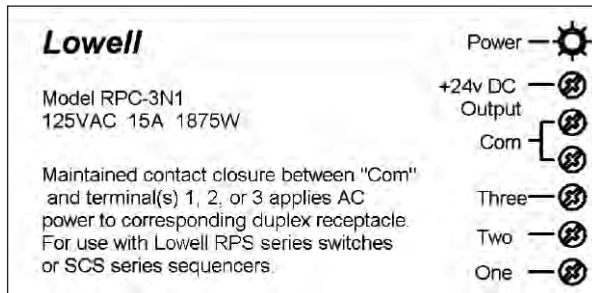
Multiple Switch Applications(momentary closure): To remotely control one or more RPC units, Lowell momentary switch module Model MSM2 and momentary wall switch Model _____ or momentary rackpanel switch Model _____ shall be used.

Sequential Power Sequencing Applications: To activate/deactivate controlled equipment in time delayed sequence, Lowell power sequencer Model _____ shall be connected to the Remote Power Control.

Model RPC-3N1



Label connection diagram



System Accessories: Order Separately

<i>Remote Switches - Maintained Closure (single switch use) - keylock also available</i>	
RPSW-P	Switch SPST rocker w 1LED maintained 1 ga wallplate
RPSB-R	Switch SPST rocker w 1LED maintained 1U rackpanel

<i>Remote Switches - Momentary Closure (multiple switch use) - keylock also available</i>	
RPSW-MP	Switch SPST rocker w 1LED momentary 1 ga wallplate
RPSW2-MP	Switch SPST rocker w 2LED momentary 1 ga wallplate
RPSB-MR	Switch SPST rocker w 1LED momentary 1U rackpanel
RPSB2-MR	Switch SPST rocker w 2LED momentary 1U rackpanel

<i>Momentary Switch Module (req. for multiple momentary switches)</i>	
MSM2	Momentary switch module for multiple switches

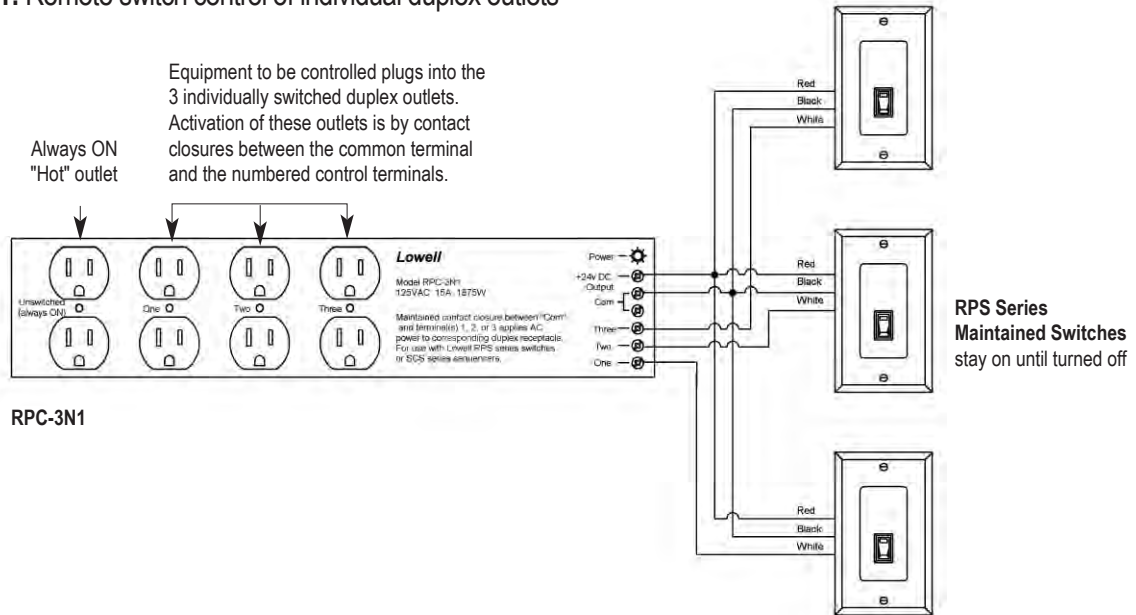
<i>Power Control Sequencers</i>	
SCS-4R	4 ch time delay 19W x 1U
SCS-4	4 ch time delay 7x3.25x1.5
SCS-8R-ASM	8 ch time delay 19W x 1U
SCS-8	8 ch time delay 10x3.25x1.5

Model	Description	Power Rating	Outlet Type	Size	Termination	Switch Type	Aux Output	Breaker
RPC-3N1	Power control, low-voltage	15A, 125VAC	4 duplex (3sw, 1unsw)	16"L x 3"W x 2.5"H	6 foot cord	Dry contact*	24VDC	15A

*Minimum rating 30VDC, 40 mA.

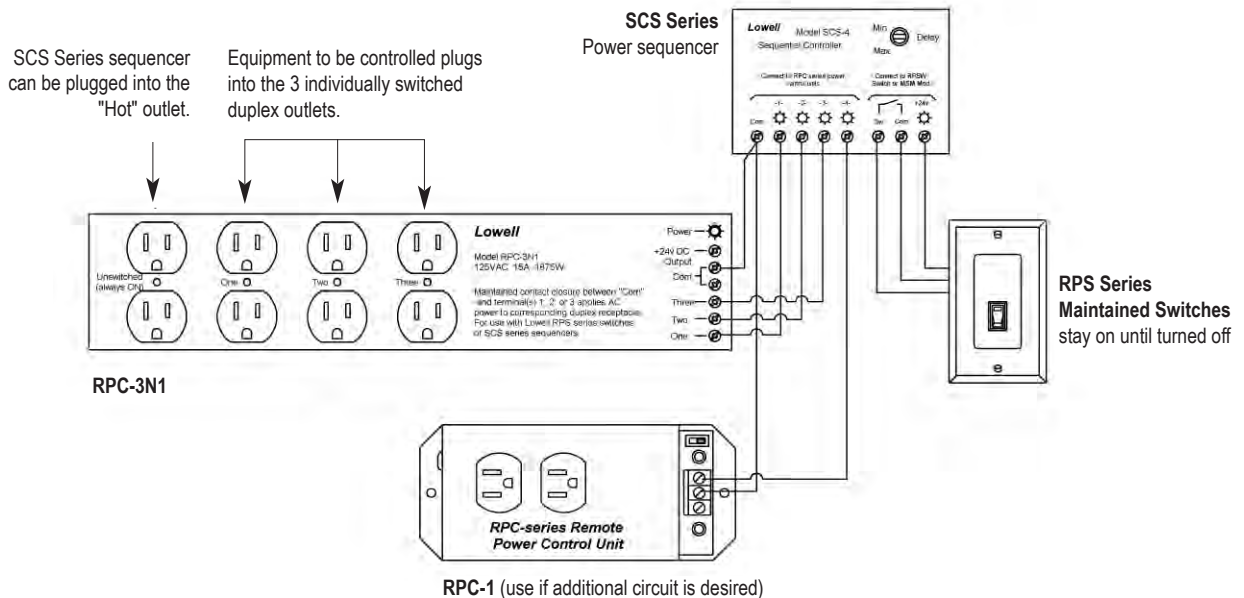
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Application 1: Remote switch control of individual duplex outlets



Typical connections are made using low-voltage, 3-conductor cable run from the RPC terminal strip to remotely located RPS Series switches. Connect the three barrier strip terminals on the RPC unit marked "+24v Out", "Com", and "Switch" to corresponding terminals on the RPS switch unit.

Application 2: Remote switch control of sequentially powered duplex outlets



RPC controls are also a key component in Lowell's SCS Series sequential control systems that provide time delayed activation and power-down of equipment. Typical connections are made using low-voltage, 2-conductor cable run from the RPC terminal strip "Com" and "Switch" connections to corresponding terminals on the sequencer. "Com" terminals may be tied together on one conductor. Note the "+24v Out" connection on the RPC is not used in sequencer applications.

The switch connections are made from the sequencer's barrier strip terminals marked "24v Out", "Com", and "Switch" to corresponding terminals on the RPS switch.