

Model No's.

RPC-20-CD & RPC-20-SCD Remote Power Controls

- Stand-alone unit with cord
- Optional surge protection

Lowell's Remote Power Controls can be utilized with a variety of switches and control systems or devices that provide either a dry contact closure or voltage output (5V-24V, AC or DC, 3mA) to provide an intrinsically safe low voltage method of controlling AC power to equipment at a remote location. The ability to safely control AC power distribution without directly accessing equipment minimizes the potential for unauthorized activation. Typical applications include commercial, entertainment, government, education and house-of-worship venues where remote power control is often required.

Installation

RPCs are typically installed in close proximity to equipment to be controlled. Low-voltage cable is run from the RPC terminal strip to a control switch (such as a switch from Lowell's RPS Series) or other control method. Systems can be configured with multiple RPCs activated by a single switch or trigger voltage source. Systems can also be configured with multiple switches or trigger voltage sources controlling a single RPC. (See connection diagrams on next page.) RPCs also serve as a key component in Lowell's low voltage sequential control systems (SCS Series).

Construction & Features

- Compact steel chassis with black powder epoxy finish
- Power Rating: 20A 125VAC
- One duplex outlet (NEMA 5-20R)
- Terminates with 6-ft. cord and NEMA 5-20P plug
- ETL Listed (UL 60065) in U.S.A. and Canada
- Made in the U.S.A. with domestic and global parts
- Optional Surge Protection (Model RPC-20-SCD only):
Maximum Surge Current:20,000A
VPR (UL 1449-3):400V
Response Time:1 nanosecond
EMI/RFI Noise Reduction:20dB@100kHz
Protection Mode:Line to Neutral
Ground Contamination:.....None

Model Numbers

Model No.	Description	Chassis Length	Chassis Width	Chassis Height	Total Outlets	Surge Protection
RPC-20-CD	Low voltage remote power control	7.5"	3.25"	2.75"	2 (20A 125VAC)	----
RPC-20-SCD	Low voltage remote power control	7.5"	3.25"	2.75"	2 (20A 125VAC)	yes



Model No. RPC-20-SCD

A&E Specifications

The device for remotely controlling AC power shall be Lowell Model No. _____, which shall include a power supply and relay housed in a 7.5"L x 3.25"W x 2.75" steel chassis with black powder epoxy finish. The unit shall include one duplex outlet with 20A power rating and six ft. cord with NEMA 5-20P plug termination.

[It shall also include basic surge protection up to 20,000A.]

Related Accessories (order separately)

- **RPS Series:** Rackmount and wall-mount SPST maintained and momentary switches with rocker or key activation.
- **SCS Series:** Modular low voltage sequencers.
- **MSM2:** Momentary Switch Module used with momentary contact switches.

Heard Everywhere Since 1947

Green LED (surge protection)

ON = protection active
OFF = protection compromised

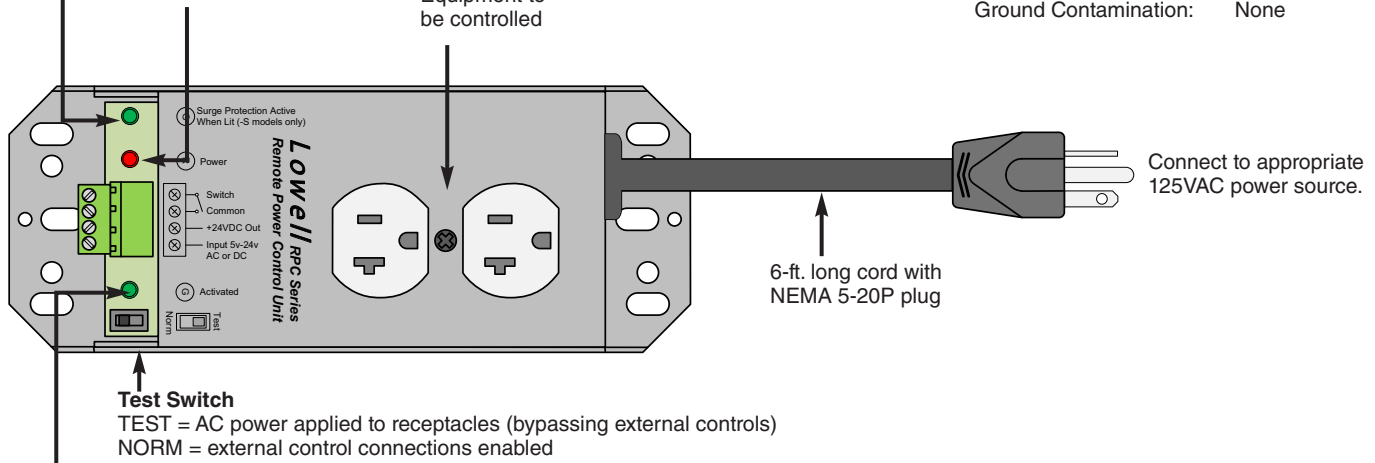
Red LED (AC power indicator)

ON = power applied to unit
OFF = no power to unit

Equipment to be controlled

Surge Protection Specifications:

Maximum Surge Current: 20,000A
VPR (UL 1449-3): 400V
Response Time: 1 nanosecond
EMI/RFI Noise Reduction: 20dB@100kHz
Protection Mode: Line to Neutral
Ground Contamination: None



Test Switch

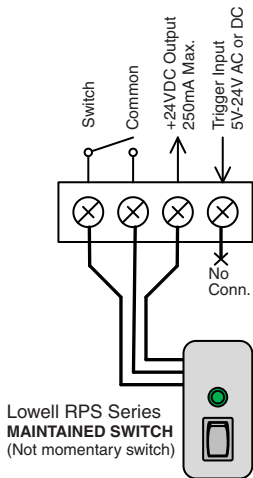
TEST = AC power applied to receptacles (bypassing external controls)
NORM = external control connections enabled

Green LED (receptacle power indicator)

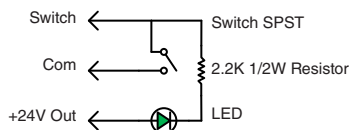
ON = power applied to receptacles (i.e. receptacles active)
OFF = no power to receptacles

Typical RPC Control Methods: low voltage, limited current Class 2 wiring

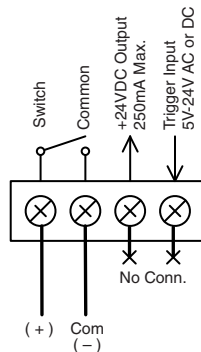
EXAMPLE 1



Switch Schematic



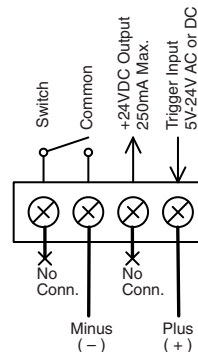
EXAMPLE 2



Dry Contact Closure or open-collector transistor switch provided by external sequencer (Lowell SCS Series) or control system (by others). Follow polarity indicators, if any, on sequencer/controller. (min. rating: 30V, 40mA)

ON = connection applied (closed)
OFF = connection removed (open)

EXAMPLE 3



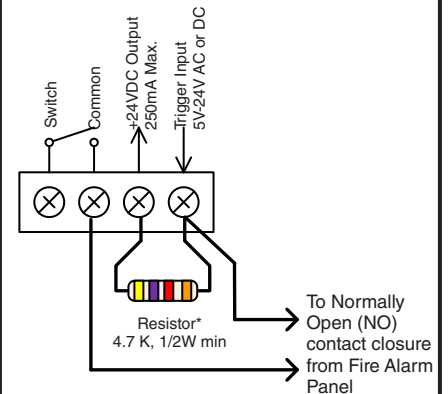
Voltage output from external control system (by others). (5-24 volts, AC or DC, 3mA max)

ON = voltage applied
OFF = voltage removed

Fire Alarm Panel Interface

Application example: RPC controls the power to a retail store music/paging system. The Fire Alarm Panel contact closure forces the music/paging system OFF so the alarm can be heard.

NOTE: A normally closed (NC) contact from Fire Alarm Panel can be used as shown in Example 2 (at left).



Voltage from +24V Out through resistor to Trigger Input holds power to receptacle "ON." Shunting Trigger Input to Com via Fire Alarm Panel contact closure forces power to receptacle "OFF."

* Not included