

Wireless Control Unit



General Description

Pprotech wireless control units contain two separate relay switches allowing for individual control through the **Pprotech** online sensors portal. The control unit relays can be switched on/off manually through the software or automatically by any wireless sensor notification assigned to a single sensor or group of sensors when a specified condition is detected.

- Allows for automated control
- 10-amp or 30-amp units available
- Two separate relays per unit
- Can be triggered by any **Pprotech** wireless sensor notification to activate upon detection of set conditions
- Can be triggered manually through online monitoring interface
- A/C powered, always on for immediate response from paired sensors.

Pprotech Wireless Control Unit Specifications

Control Unit Relays	10-Amp Units	30-Amp Units
Initial Contact Resistance	Max. 100 mΩ	Max. 50 mΩ
Max Switching Power (resistive load)	2500VA 150W (NO) 1662VA 150W (NC)	8310VA (30 Amps, 277 VAC)
Max Switching Voltage	250 VAC, 100 VDC (0.5 Amps)	277 VAC
Max Switching Current	10 Amps (AC), 5 Amps (DC)	30 Amps
Nominal Operating Power	360 mW	Approx. 800 mW
Operate Time (at nominal voltage / 20°C)	Max: 10 ms	Max: 20 ms
Release Time (at nominal voltage / 20°C)	Max: 10 ms	Max: 10 ms
Max Operating Speed	20 times/min (at nominal switching capacity)	20 times/min (at nominal switching capacity)
Number of Relays	2 (individually controlled)	
Control Activation	<ul style="list-style-type: none"> • Automatic based on sensor notification settings • Manual through Pprotech online software 	
Power		
Input Power	5.5 VDC @ 900 mA	
Mechanical		
Antenna	Connector: SMA Gain (dBi): 3.0	

Indicator Lights	Four LED indicators <ul style="list-style-type: none"> • Power • Radio (RF) communication • Relay 1 status (On/Off) • Relay 2 status (On/Off)
Enclosure	ABS Plastic UL94V-0 flame rating
Dimensions	5.5 in. x 3.355 in. x 1.25 in. (139.7 mm x 85.217 mm x 31.75 mm)
Weight	8 ounces
Environmental	
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Certifications:	900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

Power Options

The standard version of this sensor is powered by two replaceable 1.5 V AA sized batteries (included with purchase).

Features of PPROTECH Sensors

- Four LED indicators let the user know if the device is powered on, communicating with the online system and the status of each relay.
- The user can manually turn a relay on or off through the **Pprotech** software. Manual changes are either: (a) temporary based on a set duration (ex. activate the relay for 10 minutes then return to the default state); (b) perpetuated indefinitely until overridden.
- Each of the units two relays can also be controlled automatically by any wireless sensor or group of sensors. Automatic relay switching can be triggered by setting the control parameters in a sensor notification from the system. The user can set the default state of each relay to on or off and user defined messages from sensors will cause the relay unit to switch to the non-default state. The relay switches back to its default state when the condition is no longer met.
- Example Use: If a water sensor detects water at a certain level in a sump pit, the relay will switch ON, activating the pump. When water is no longer detected, the relay will switch OFF, deactivating the pump motor.

