



# *iWorX PumpPaX* Specification & Submittal Data

## PRC-X

PumpPax Zone Relay Control Family provide switching for circulators or zone valves in hydronic applications.

## Overview

The iWorX PumpPax family are non-networked devices intended to be used for circulator and boiler control in hydronic heating systems. The Relay Control connects to industry standard thermostats using either two or three wires. The optional third wire provides 24VAC to thermostats that require external power.

The ZRC-X operates in a cold start configuration, upon a call for heat from the thermostat, the modules relay is energized, which in turn, switches 120VAC to enable the circulator and also provides a call for heat signal to the boiler.

Zone relay control is provided for one, three, four and six zones.

Zone 1 of the multi-zone ZRC-X controller family can be optionally configured for domestic hot water priority operation. When configured for domestic hot water priority, when Zone 1 of the relay is activated the remaining Zone circulators will be deactivated while maintaining thermostat 24V power. When Zone 1 is deactivated, zones 2 and higher will return to normal operation.

If the freeze protection feature has been selected, Zone 1 will be deactivated after 1 hour if the Priority Zone demand has not been satisfied and the remaining zones will be activated if there is a call for heat. If the Freeze Protection feature has not been enabled on Zone 1 (Priority Zone), when Zone 1 is deactivated, zones 2 and higher will return to normal operation.



## Features

- PumpPax Zone Relay Control for one, three, four and six zones
- Four Zone 4X can be expanded up to six zones
- LED for external diagnostic in the front of the enclosure
- Fuse for overload protection
- Large terminal blocks
- Multiple knockouts
- High capacity transformer
- Freeze protection, when used with a priority zone
- 5 Year warranty
- 24VAC Transformer for Thermostat



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# Specifications

## Electrical

### Inputs

PRC-1: Thermostat current setting 0.300A

( Heat Demand)

PRC-3 to 6: Thermostat current Setting 0.07A

(1 to 6 Heat Demand Inputs, Zone 1/Priority Heat Demand)

### Output

PRC-1: 1 Power Relay - DPDT Socketed

10A 1/3Horsepower

PRC-3 to 6: Power Relay - DPDT Socketed

7.2A 1/3 Horsepower (not to exceed 30A total)

### Power

#### Power Requirements

- 120 VAC, 50/60 Hz

#### Power Supply

- PRC-1: 15 VA Fused 1A
- PRC-3 to 6: 25 VA Fused 2.5A

## Mechanical

### Housing

#### Dimensions

- PRC1: 5.20" high, 4.3" wide, 2.86" deep (132 mm high, 109 mm wide, 72.6 mm deep)
- PRC3 to 6: 9.47" high, 12.09" wide, 2.75" deep (240.5 mm high, 307.08 mm wide, 69.85 mm deep)

#### Material

- Base: 0.47 Gauge Galvanized Steel
- Cover: 0.30 Powder Coated Steel

#### Mounting

Wall or panel mount with two to four #6-32 screws or equivalent

#### Weight

- PRC-1: 2.25 lbs (1.02 kilograms)
- PRC-6: 6.19 pounds (2.81 kilograms)

#### Environmental

- Temperature: 32 °F to 158 °F (0 °C to 70 °C)
- Humidity: 0 to 95%, non-condensing

#### Agency Listings

- UL 873 Temperature Indicating and Regulating Equipment

#### Agency Compliances

- FCC Part 15 Class B