



# HYDROZONE 6001 Single Zone Switching Relay Instruction Manual

[Home](#) » [HYDROZONE](#) » HYDROZONE 6001 Single Zone Switching Relay Instruction Manual 



**Model 6001  
Single Zone  
Switching Relay  
120 VAC Input  
Installation Instructions and  
Operating Manual**

## Contents

- [1 6001 Single Zone Switching Relay](#)
- [2 MOUNTING INSTRUCTIONS](#)
- [3 WIRING](#)
- [4 OPERATING INSTRUCTIONS](#)
- [5 DIMENSIONS AND LED INDICATORS](#)
- [6 LIMITED MANUFACTURER'S WARRANTY](#)
- [7 Documents / Resources](#)
  - [7.1 References](#)

**6001 Single Zone Switching Relay**



- LED INDICATORS
- ZONE FAULT INDICATOR
- AUTOMATIC CIRCULATOR SHORT CYCLE PROTECTION
- AVAILABLE COMMON TERMINAL FOR SMART THERMOSTATS
- TEST BUTTON
- 10 VA TRANSFORMER TO PROVIDE THERMOSTAT POWER
- TWO SPDT RELAYS
- FUSED OUTPUTS WITH SPARES INCLUDED
- EXTRA L2 TERMINAL FOR EASE OF WIRING

### Ratings

Output relays .....6 Amps per contact

Combined outputs .....12 Amps

RWC input .....24 VAC, 10 VA

Fuses .....16 A, slow blow

Read these instructions completely before proceeding with the installation. Retain instructions for future reference.



### WARNING

**Electrical shock hazard.** To prevent electrical shock, death or equipment damage, disconnect power supply before installing or servicing control. Only qualified personnel may install or service this control in accordance with local codes and ordinance



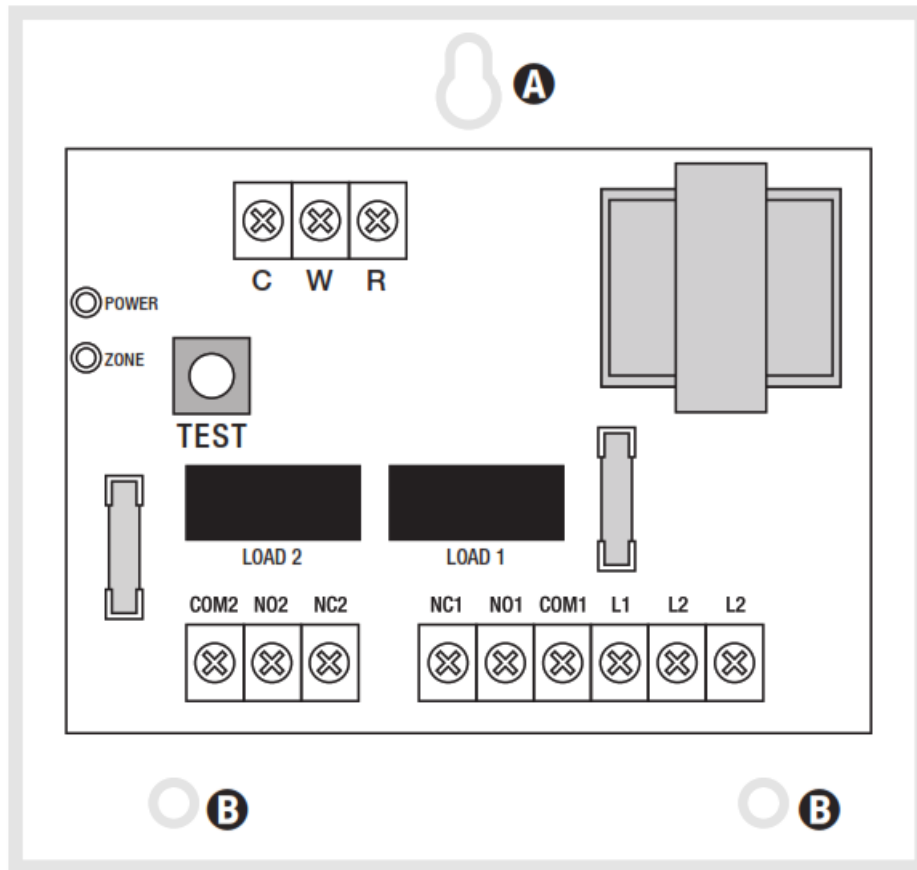
### WARNING

**Frozen pipes/water damage.** Central heating systems are prone to shut down as a result of power or fuel outages, safety related fault conditions or equipment failure. Installation of freeze protection monitoring or other precautions is recommended for unattended dwellings in climates subject to sustain below-freezing temperatures.

## MOUNTING INSTRUCTIONS

1. Position the enclosure against a flat wall surface or boiler jacket and mark the top center keyhole location A.
2. Start a screw in the marked location and hang the control on the screw.

3. Add screws to the lower right and lower left mounting holes B and tighten all three screws.



## WIRING

### WARNING

Electrical shock hazard.

To prevent electrical shock, death or equipment damage, disconnect power supply before installing or servicing control. Only qualified personnel may install or service this control in accordance with local codes and ordinances. All wiring must comply with the National Electric Code or any other state or local codes or regulations.

#### TERMINAL DESIGNATIONS

##### Low Voltage/Thermostat

**R** 24 VAC for the thermostat R terminal

**W** 24 VAC for the thermostat W terminal

**C** 24 VAC common for powered thermostats

**Note:** A closed switch between R and W will create a call for heat and energize the relay outputs.

##### Line Voltage

**L1** 120 VAC hot

**L2** 120 VAC neutral

##### Switching Contacts

**COM1** Common terminal for load 1

**NO1** Normally open terminal

**NC1** Normally closed terminal

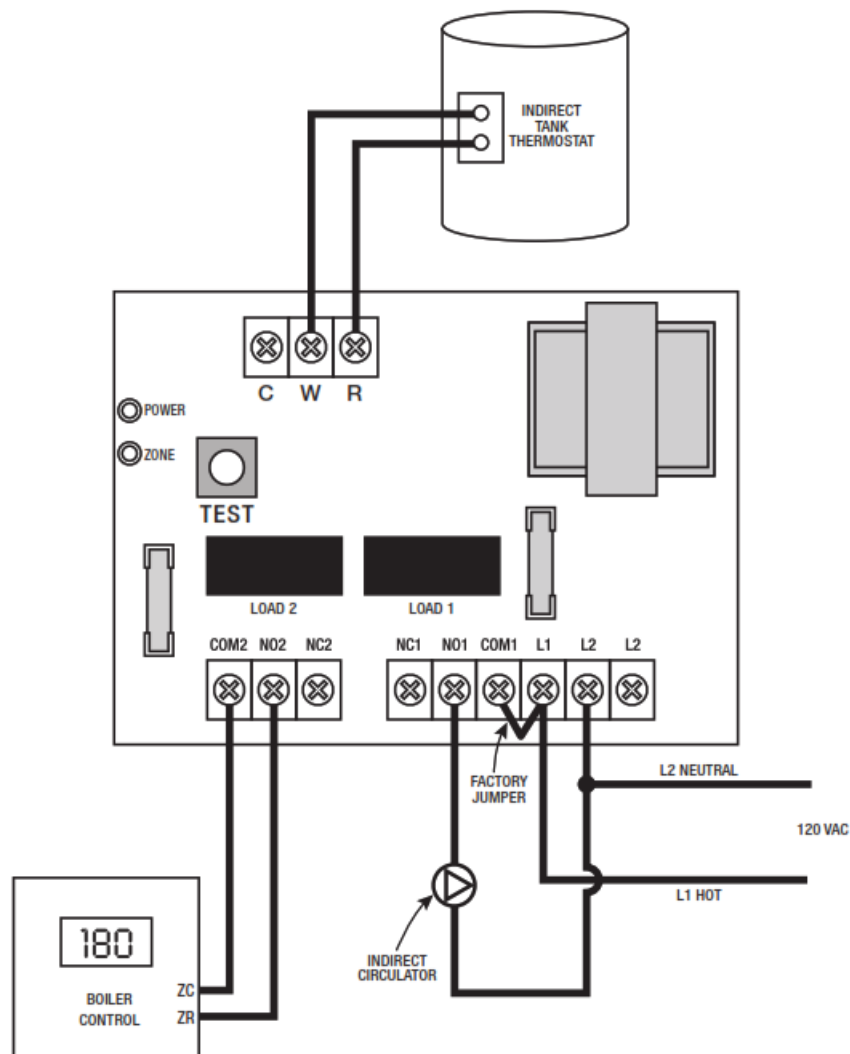
**COM2** Common terminal for load 2

**NO2** Normally open terminal

**NC2** Normally closed terminal

#### TYPICAL SINGLE ZONE WIRING





## TERMINAL DESIGNATIONS

### Low Voltage/Thermostat

**R** 24 VAC for the thermostat R terminal

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### Line Voltage

**L1** 120 VAC hot

**L2** 120 VAC neutral

### Switching Contacts

**COM1** Common terminal for load 1

**NO1** Normally open terminal

**NC1** Normally closed terminal

**COM2** Common terminal for load 2

**NO2** Normally open terminal

**NC2** Normally closed terminal

## OPERATING INSTRUCTIONS

### Operation

A call for heat between terminals R and W will energize both relays at the same time.

LOAD 1 can be used to control a circulator. For convenience, a jumper has been factory installed between terminals L1 and COM1.

LOAD 2 can be used as dry contacts to signal the boiler that there is a call for heat. Terminals COM2 and NO2 are the contacts that will close on a call to R and W.

**Note:** Both relay outputs are rated for 6 amps so either output, LOAD 1 or LOAD 2 can be used to control a

circulator pump.

#### Test Button

Push the test button on the circuit board to test the output terminal wiring. Pressing the test button will simulate a call on the thermostat input and turn on the "ZONE" LED. The relays will both close to verify the desired operation. When the zone is not calling for heat (by thermostat or test button), the "ZONE" LED will be off.

#### Zone Fault Indicator

A Blinking "ZONE" LED indicates the zone has been calling for a consecutive 3 hours and has not been satisfied. This could indicate a bad circulator and should be investigated. If the "ZONE" LED is blinking but your circulator is operating per it's instruction manual, please contact tech support.

The LED will only blink when the zone call is a continuous 3 hours and the "ZONE" LED will return to normal operation when the zone call ends.

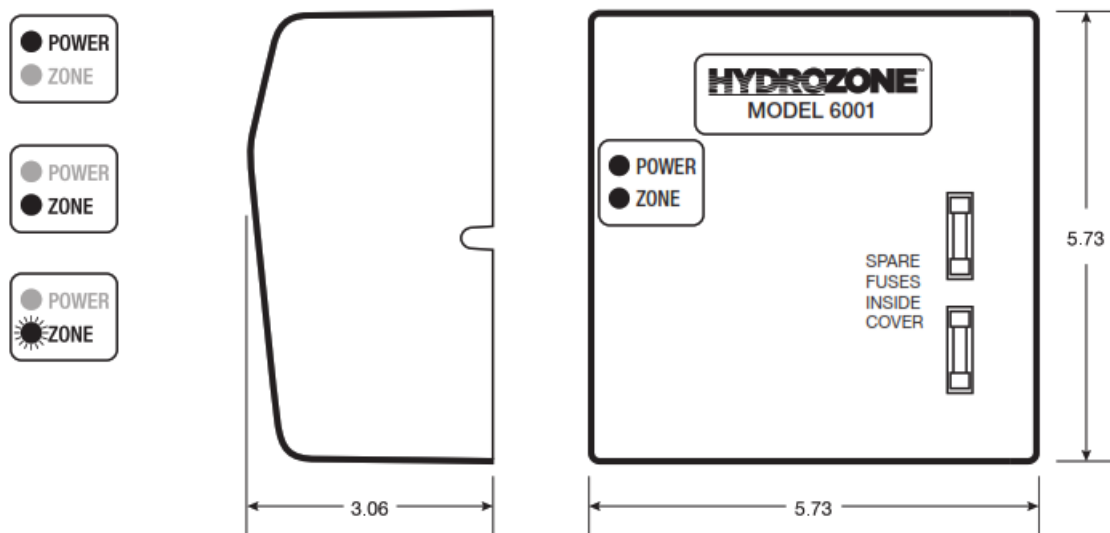
## DIMENSIONS AND LED INDICATORS

Solid "POWER" LED – Control is powered up

Solid "ZONE" LED – Call for heat

Blinking "ZONE" LED – Zone Fault Indicator

Zone has been calling for consecutive 3 hours and has not been satisfied. (Could indicate a bad circulator)



## LIMITED MANUFACTURER'S WARRANTY

We warrant products manufactured by Hydro level Company to be free from defects in material and workmanship for a period of two years from the date of manufacture or one year from the date of installation, whichever occurs first. In the event of any claim under this warranty or otherwise with respect to our products which is made within such period, we will, at our option, repair or replace such products or refund the purchase price paid to us by you for such products. In no event shall Hydro level Company be liable for any other loss or damage, whether direct, indirect, incidental or consequential. This warranty is your EXCLUSIVE remedy and shall be IN PLACE OF any other warranty or guarantee, express or implied, including, without limitation, any warranty of MERCHANTABILITY or fitness for a particular purpose. This warranty may not be assigned or transferred and any unauthorized transfer or assignment thereof shall be void and of no force or effect.



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Documents / Resources

 <p>HYDROZONE 6001</p> <p>Installation Instructions and Operating Manual</p> <p>6001 Single Zone Switching Relay 6001, Single Zone Switching Relay, Zone Switching Relay, Switching Relay, Relay</p>	<p><a href="#">HYDROZONE 6001 Single Zone Switching Relay</a> [pdf] Instruction Manual 6001 Single Zone Switching Relay, 6001, Single Zone Switching Relay, Zone Switching Relay, Switching Relay, Relay</p>
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References

- [Home | Hydrolevel](#)