# **Submittal**

## Switching Relay 304P



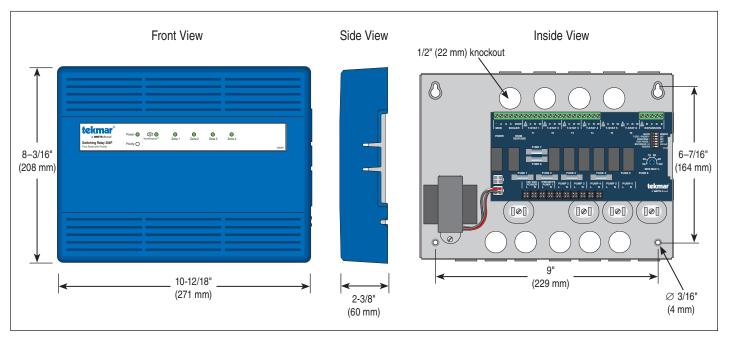


Zoning

Replaces: 11/16

Job \_\_\_\_\_ Designer \_\_\_\_ Contact \_\_\_\_

The Switching Relay 304P connects up to four thermostats and operates circulators to provide heating to a zoned hydronic heating system. Zone 1 has optional priority over zones 2 through 4 and can be used to provide heat to an indirect domestic hot water tank. The 304P includes optional exercising to prevent circulator seizure when not in use, and optional post purge operation of the last operating zone to maximize energy savings. The 304P provides aRoomResponse™ signal to modulating-condensing boilers to optimize comfort while improving boiler efficiency.



#### **Specifications**

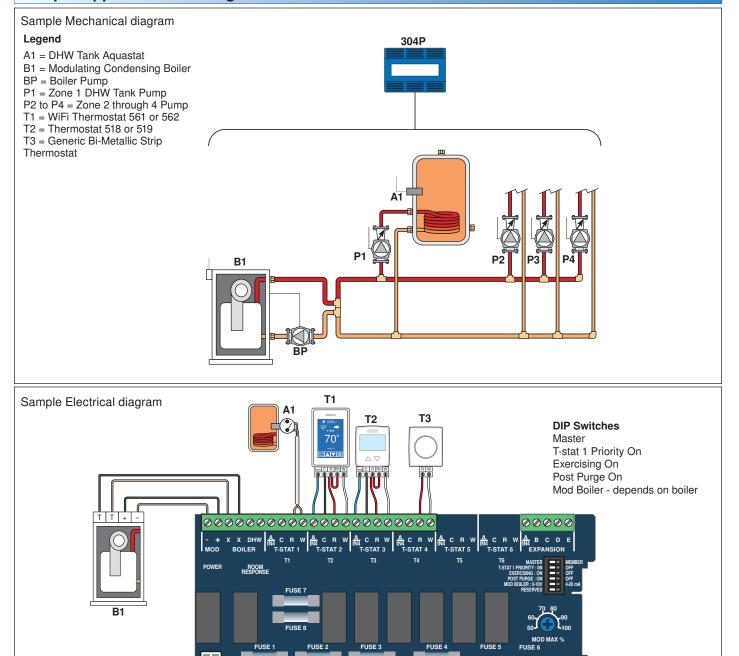
| -   |   |
|---|---|
| Switching Relay 304P Four Zones with Priority |   |
| Literature                                    | 304P_C, 304P_D, 304P_J  |
| Control                                       | Microprocessor control. This is not a safety (limit) control.                               |
| Packaged weight                               | 5.0 lb. (2250 g)  |
| Dimensions                                    | 8-3/16" H x 10-12/18" W x 2-3/8" D (208 x 271 x 60 mm)                                      |
| Enclosure                                     | Cover: ABS plastic, Base: galvanized steel, NEMA type 1                                     |
| Approvals                                     | CSA C US  |
| Ambient conditions                            | Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% non-condensing                            |
| Power supply                                  | 115 V (ac) ±10%, 60 Hz, 17.3 A  |
| Transformer                                   | 40 VA at 24 V (ac), expandable to 80 VA with additional transformer M3069 (sold separately) |
| Control load                                  | 7 VA at 24 V (ac)   |
| Fuses   | T5A, 250 V slow blow, two spare fuses included  |
| Pump relays                                   | 115 V (ac), 5 A, 1/3 hp, 17.3 A combined  |
| Boiler XX end switch                          | 24 V (ac), 5 A  |
| DHW end switch                                | 24 V (ac), 5 A  |
| Mod boiler output                             | 0-10 V (dc) 500 $\Omega$ min load impedance 4-20 mA 1k $\Omega$ max load impedance          |
| Warranty                                      | Limited 3 Year (See 304P_D for full warranty)   |

#### **Features**

- RoomResponse<sup>™</sup> signal (Patent Pending)
- · Compatible with all low voltage thermostats
- Unlimited zone expansion
- Zone priority
- · Priority override
- · Pump exercising
- Post purge
- LED for each zone, priority, end switch and RoomResponse™
- Away signal shared between tekmar thermostats
- · Four ground screws
- Top, bottom and back conduit knockouts
- Fuses protect transformers and pumps
- Two spare fuses included
- · CSA approved



## **Sample Application Drawing**



### **A** CAUTION

This Submittal is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.



A WATTS Brand

All specifications are subject to change without notice.

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