ProRadiant SYSTEMS

Viega

Product Instructions
Pump and Boiler Relay

Applications
The Viega LLC Pump and Boiler Relay provides power to circulators and can enable a boiler as well. Control may be provided from a Viega Zone Control or Thermostat.

Features
External Indicator Lights
Universal Replaceability
Snap-in PC Board
Simple Wiring
Fully Enclosed Snap-out Relays
100% Factory Tested
Contractor Friendly PC Board Layout
Universal Zone Control and Thermostat Compatibility
UL Approved
Made in USA

Specifications
Transformer Voltage:
120 VAC input
Maximum Load: 7.2 amps

Installation
Wiring connections must be made in accordance with all applicable electrical codes. Use copper wire only. Failure to follow this instruction can result in personal injury or death and/or property damage. 10-18 gauge wire recommended for all 120 VAC connections with 9 in. lbs. max torque, 12-22 gauge wire for thermostat connections with 9 in. lbs. max torque.

Jumper placement:
The jumper is factory installed between terminals H and 3 to switch power on terminals 4 n/o and 4 n/c.

Operation
There are three common ways to connect the Pump and Boiler Relay:

With Zone Control:
Connect pump relay contacts of Zone Control to “T T” terminals on the relay. When the Zone Control calls for heat, the relay is energized and power is provided to the circulator (and/or dry contact to the boiler).

See wiring diagram #1 on reverse.

With Viega Thermostat:
Connect a 3-wire thermostat (such as a Viega thermostat) to the R, W, and COM terminals on the relay. From the thermostat, connect L to R, the arrow to W, and N to 24 VAC/COM. When the thermostat calls for heat, the relay is energized and power is provided to the circulator.

See wiring diagram #2 on reverse.

With 2-Wire Thermostat:
Connect a 2-wire thermostat to the “T T” terminals on the relay. When the thermostat calls for heat, the relay is energized and power is provided to the circulator (and/or dry contact to the boiler).

See wiring diagram #3 on reverse.

Dimensions
Width 4-1/4”
Height 5-1/4”
Depth 2-3/4”

Troubleshooting
The external indicator lights show full functionality of the Pump and Boiler Relay. The green light should always be on, indicating that power is connected. If the green light is out check the power connections at terminals N and H. The red light shows a call for heat, indicating that power is being supplied to the circulator (and/or a boiler enable signal is provided).

If the Zone Control or thermostat is calling for heat but the red light is out, check the thermostat wiring. If the red light is on but the circulator is not running, check the circulator connection to the relay.

VIEGA • *One Company... One Partner... Delivering System Solutions.*
301 N. Main, Floor 9 • Wichita, KS 67202 • Ph: 877-Viega-NA • Fax: 316-425-7618 • E-Mail: service@viega.com • www.viega.com

ProRadiant SYSTEMS

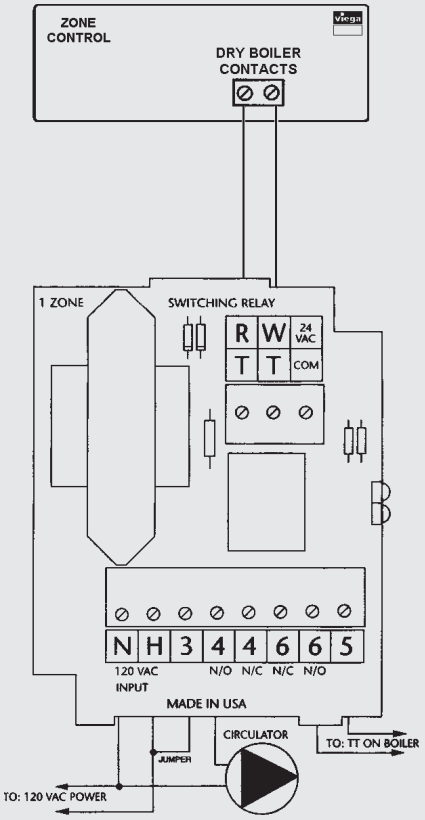
viega

Product Instructions

Pump and Boiler Relay

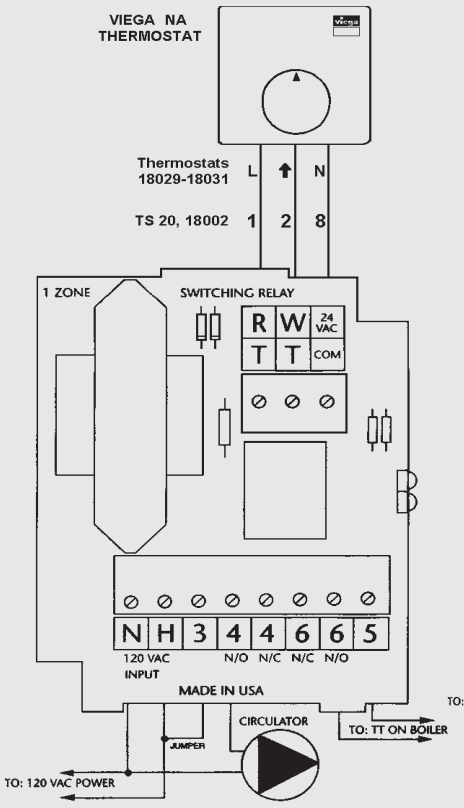
Wiring Diagram #1

Connecting the Pump and Boiler Relay to a Viega Zone Control



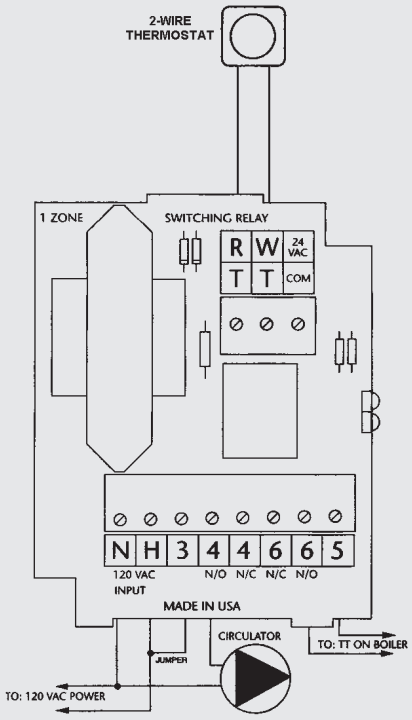
Wiring Diagram #2

Connecting the Pump and Boiler Relay to a Viega Thermostat



Wiring Diagram #3

Connecting the Pump and Boiler Relay to a 2-wire thermostat



Terminal Identification:

T & T	Zone Control or thermostat connection
COM	Common side of 24V transformer, for 3-wire thermostats
N	Neutral wire of power input (120 V)
H	Hot wire of power input (120 V)
3	Common terminal for 4 n/o and 4 n/c
4 n/o	Normally open terminal
4 n/c	Normally closed terminal
6 n/o	Normally open terminal
6 n/c	Normally closed terminal
5	Common terminal for 6 n/o and 6 n/c

VIEGA • *One Company... One Partner... Delivering System Solutions.*
301 N. Main, Floor 9 • Wichita, KS 67202 • Ph: 877-Viega-NA • Fax: 316-425-7618 • E-Mail: service@viega.com • www.viega.com