



# Instruction Sheet

## SR501-845RP Universal Replacement Relay

102-105

SUPERSEDES: 102-105 October 15, 2005

EFFECTIVE: March 1, 2006

Plant ID# 9300-1048

**Features:**

Universal Replaceability  
Indicator Lights  
Snap-in PC Board to Existing Enclosure  
Simplified Wiring  
Fully Enclosed Snap-Out Relay  
100% Factory Tested  
Universal Thermostat Compatibility  
UL Approved  
Extended 3 Year Warranty  
Made in the USA

**Operation:**

Connect a thermostat to the "T T" terminals on the switching relay. When the thermostat calls for heat, the relay is energized and power is given to the circulator.

**Power Input:**

Connect 120 volt ac power to terminals L1 and L2.

**Jumper Placement:**

The jumper is factory installed between terminals L1 and 3 to switch power on terminal 4.

**Diagnostics:**

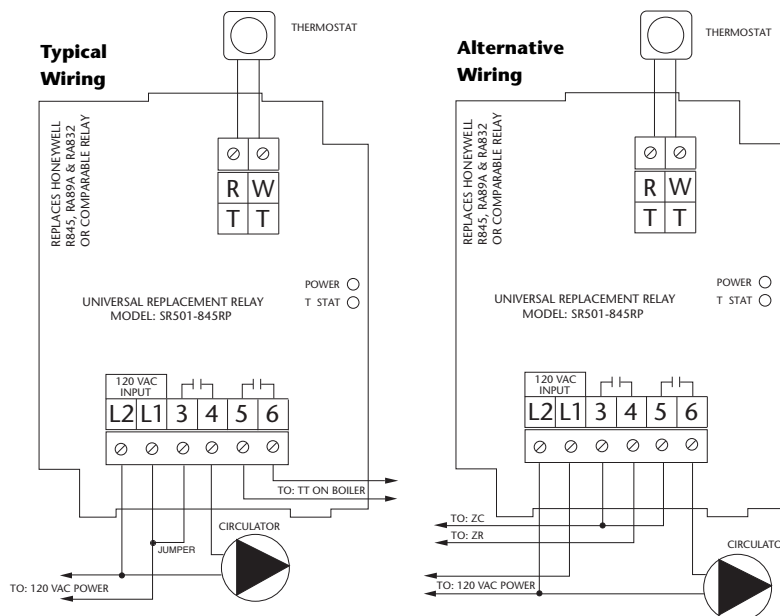
The Indicator lights show full functionality of the switching relay. The green light should always be on, indicating that power is connected. When the thermostat calls for heat, both the appropriate circulator and red indicating light is energized.

**The Taco Connection:**

Combine the reliability of the Taco Zone Valves, Priority Zoning Circulators, Thermostats, and the "00" family of circulators with the advanced features of the Taco Zone Controls to achieve total system integration. No matter the application, Taco now provides the products to maximize system performance while simplifying both installation and service.

**Terminal Description:**

T & T	Thermostat Connection
COM	Common side of transformer, to power some setback thermostats
L2	Neutral wire of power input
L1	Hot wire of power input
3	Common terminal for 4
4	Normally open terminal
6	Normally open terminal
5	Common terminal for 6



**Note:** When using Alternative Wiring diagram, the boiler operating control's ZC terminal will see the load of the circulator(s).

**Warning:** When using Alternative Wiring diagram, wiring instructions must be followed so power originates from the boiler aquastat. Failure to follow these wiring instructions may result in a secondary source of power being connected to the boiler that may activate it under certain circumstances, causing injury or death.

**Specifications:**

PRODUCT NUMBER	NUMBER OF ZONES	TRANSFORMER VOLTAGE	MAXIMUM COMBINED LOAD	DIMENSIONS OF ENCLOSURE WIDTH	HEIGHT	DEPTH
SR501-845RP	1 Zone	120 VAC Input	7.2 amps	4 1/4"	5 1/4"	2 3/4"

All Switching Relays are relay type DPDT, have a thermostat current of .18, and have a single phase motor rating per zone of 1/3 hp (7.2A) @ 120 VAC.

TACO SR501-845RP REPLACEMENT CROSS-REFERENCE									
MANUFACTURER	MODEL	CONNECTIONS							
Taco	SR501-845RP	L1	L2	3	4	5	6	R/T	W/T
Argo	AR821	1	2	3	4	5	6	T	
	AR822	L1	L2	3	4 NO	5	6 NO	R/T	G/T
Colombus	MR10	L1	L2	3	4 NO	5	6 NO	R/T	G/T
Erie	SR100	L1	N	3	4 NO	5	6 NO	R/T	G/T
Honeywell	RA89A	1	2	3	4			T	T
	RA832A	1	2	3	4	X	X	T	T
	R845A	1	2	3	4	5	6	T	T
White-Rogers	889-189	1	2	3	4			T	T
	829-845	1	2	3	4	5	6	T	T

**Warning:** Wiring connections must be made in accordance with all applicable electrical codes. Use copper wire only with a minimum temperature rating of 60/75°C. Failure to follow this instruction can result in personal injury or death and/or property damage. 12-18 gauge wire recommended for 120 VAC connections, 14-22 gauge wire for thermostat connections and 14-22 gauge wire for 24 VAC source connections.

## LIMITED WARRANTY STATEMENT

Taco, Inc. will repair or replace without charge (at the company's option) any product or part which is proven defective under normal use within three (3) years from the date of start-up or three (3) years and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject product or part contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Any Taco product or part not installed or operated in conformity with Taco instructions or which

has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at [401-942-8000].

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