



2A38-14

SPDT TEMPERATURE CONTROLS

For Remote Control of Combination Heating-Cooling Installations.
Ideal for use as Outdoor Thermostat or Changeover Control

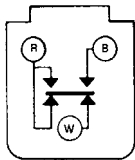
FEATURES

- Hydraulic action element – No leveling required.
- Switch case mounts in any position. Bulb mounting clamp included.
- Dustproof steel case – Dial visible and can be adjusted through cover. Case has knockouts on top and bottom.
- Temperature dial graduated in °F and °C.
- Easy to wire screw terminals.

SPECIFICATIONS

Dimensions 5³/₈" H x 2⁵/₁₆" W x 2⁹/₁₆" D
Finish Grey
Agency U.L. listed

| Model Number | Range | Differential | Capillary Length | Bulb Size | Switch Action | Full Electrical Rating | Resistive (Full Load) | |
|--------------|-------------------------------|-----------------------------------|------------------|---|---------------|------------------------|-----------------------|---------|
| | | | | | | | 120 VAC | 240 VAC |
| 2A38-14 | 20 to 120°F (-6 to +49°C) | Adj. 3 to 30°F (3 to 17°C) | 20 ft. | 6 ¹ / ₄ " x 3 ³ / ₈ " | SPDT | SPDT see p. 219 | 7.4A | 3.7A |
| 445-6 | 20 to 90°F (-6 to +32°C) | Adj. 4 to 20°F (2 to 11°C) | 5 ft. | 6 ³ / ₄ " x 3 ³ / ₈ " | SPDT | SPDT see p. 219 | 7.4A | 3.7A |
| 1687-9 | -30 to 90°F (-34 to +32°C) | Adj. 4.5 to 40°F (2.5 to 22°C) | 8 ft. | 5 ¹ / ₄ " x 3 ³ / ₈ " | SPDT | SPDT see p. 219 | 7.4A | 3.7A |



SPDT Contact Structure

SPDT Rated Controls

Switch Action

R-B Open on Rise
R-W Close on Rise

AUTOMATIC CHANGE-OVER SWITCH

SPDT Control Provides Automatic Change-Over of Thermostat to Operate Zone Valve on Combination Hot and Chilled Water Systems

FEATURES

- Epoxy resin seal protects bimetallic disc and Snap-Action contacts from dust, dirt and corrosion.
- Furnished with removable spring clip to attach control to tubing.
- SPDT switch connects heating side of thermostat to two-wire zone valve when hot water is circulated through tubing.
- SPDT switch connects cooling side of thermostat to two-wire zone valve when chilled water is circulated through tubing.
- Curved sensing element provides maximum contact with tubing.

SPECIFICATIONS

Electrical Connections 12" red, brown and black leads, 105°C insulated, No. 18 wire
Temperature Settings Red-Black: open on rise @ 85°F, close @ 70°F
Red-Brown: close on rise @ 85°F, open @ 70°F
Ambient Temperature 221°F maximum



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CONTRACTOR TIP: USE WITH ZONE VALVES ON PAGES 129-132 FOR HEAT/COOL APPLICATIONS.

TYPES FOR USE WITH 1/2" TUBING (⁵/₈" O.D.)

| Model Number without conduit conn. | Model Number with conduit connector | Switch Action | Motor Rating | | | | Pilot Duty 120/240/ 277 VAC | Resistive (non-inductive) 120/240/277 VAC |
|--|---|------------------|--------------|---------|------------|---------|-----------------------------------|---|
| | | | Full Load | | Lock Rotor | | | |
| | | | 120 VAC | 240 VAC | 120 VAC | 240 VAC | | |
| 752-1 | 752-2 | SPDT | 7.5A | 3.75A | 45.0A | 22.5A | 125 VA | 15A |