

SERIES TSO, TSK



TEMPSWITCH® Thermostats

1.11.2

FEATURES

- **UL® 873, File #E181193**, for applications requiring limit control
- **304 stainless steel shell** resists corrosion
- **Positive closure electrical contacts** provide excellent vibration resistance and reduce contact chatter
- **"Anticipation" feature** reduces temperature overshoot upon rapid temperature rise
- **Adjustable temperature set point** via an adjustment screw
- **Optional factory-calibrated set point**

APPLICATIONS

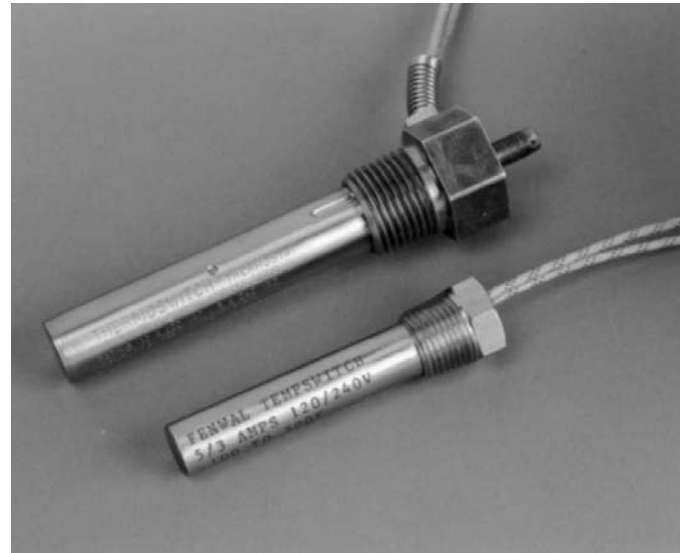
- Heat or cool temperature control
- High or low limit control
- Hydraulic oil reserves
- Hot melt and other glue systems
- Plastics and textile processing
- HVAC
- Environmental chambers
- Food warming equipment
- Vending machines

PERFORMANCE CAPABILITIES

- Controls up to 500°F (260°C) while switching up to a 600 watt AC load.

DESCRIPTION

The TEMPSWITCH® is a 1/2" diameter mechanical thermostat with an adjustable temperature set point. Lightweight and compact, these units are economical temperature controllers or stand-alone high or low limit controllers. The TEMPSWITCH® can be wired interconnected, or used for pilot duty with a relay.



SPECIFICATIONS

Shell Diameter	0.5 inches (12.7 mm)
Shell Length	2 9/16 inches (65.1 mm)
Temperature Adjustment Rate	100°F/Turn
Standard Lead Wire Length	10 inches (254 mm)
Leadwire	22 GA, 450°C, 300 V MGT/MICA-GLASS
Maximum Volts	240 VAC (28 VDC)
Maximum Watts	600 AC (70 DC)
Maximum Amps	2.5 @ 240 VAC, 5.0 @ 120 VAC
Maximum Operating Pressure	200 PSIG (1380 kPa)
Maximum Operating Temperature	500°F (260°C)
Minimum Operating Temperature	-100°F (-73°C)
Factory Preset Temperature Range	68°F to 500 F (25 to 260°C)

MOUNTING CONFURATION	DIMENSIONS	DESCRIPTION	CATALOG NUMBER	CONTACT OPERATION ON TEMPERATURE RISE
CARTRIDGE		Cartridge without locating pin	TSOJP01A TSKJP01A	Opens Closes
		Cartridge with locating pin	TSOJB01A TSKJB01A	Opens Closes
HEX HEAD Brass		Same as cartridge type with the addition of a brass pipe thread	TSOJH01A TSKJH01A	Opens Closes
HEX HEAD Stainless Steel		Same as cartridge type with the addition of a stainless steel pipe thread	TSOJH02A TSKJH02A	Opens Closes
COUPLING HEAD Brass		Same as cartridge type with the addition of a brass coupling head	TSOJC01A TSKJC01A	Opens Closes
COUPLING HEAD Stainless Steel		Same as cartridge type with the addition of a stainless steel coupling head	TSOJC02A TSKJC02A	Open Closes

HOW TO ORDER

T S X J X X X A

O = Normally Closed
K = Normally Open

P01 = Plain
B01 = Locating Pin
H01 = Hex Head Brass
H02 = Hex Head, Stainless Steel
C01 = Coupling Head, Brass
C02 = Coupling Head, Stainless Steel
R01 = Right Angle, Stainless Steel Cable

TO ORDER YOUR TEMPSWITCH®

THERMOSTAT, SPECIFY:

- Catalog number
- Factory-calibrated set point, if required
- Lead length beyond the standard 10 inches, if required
- Quantity

TO MAKE A MODIFICATION SPECIFY:

- 01-990010-XXX SPECIAL MARKING (MOD 1)
- 01-990029-XXX EXTENDED LEADWIRES (MOD 2)
Leadwires may be extended over the standard 10" length.
Specify the total length required as the last three digits of the modification number
- 01-990029-036 36" TOTAL LEADWIRE LENGTH
- 01-990030-009 FACTORY TEMPERATURE SETTING (MOD 3)
The controller may be set at Fenwal to any temperature between 68°F to 500°F.
The factory setting tolerance is $\pm 4\%$ of setting

Fenwal also offers a complete line of $\frac{5}{16}$ " diameter THERMOSWITCH® thermostats for applications requiring a 10A/120VAC current rating. Temperature ranges up to 600°F and various mounting configurations are available. Contact your Fenwal representative and request sales brochure 1.10 for specifications.



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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications are subject to change without notice. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to LICO.

P/N 1.11.2

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