

Pneumatic Thermostats

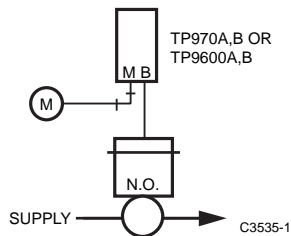
TP970 Pneumatic Thermostat



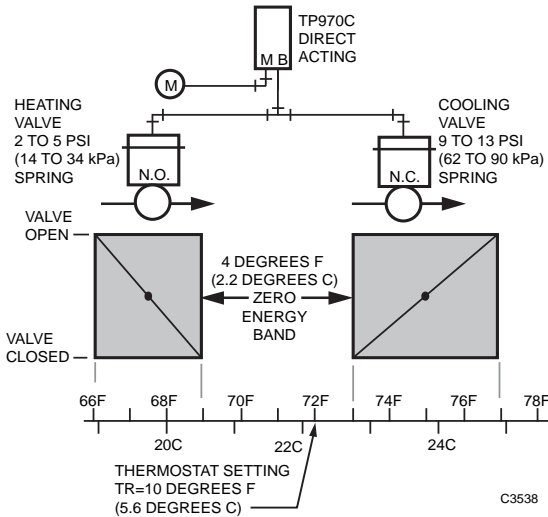
Two-pipe, single setpoint, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Replacement kits are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell two-pipe pneumatic thermostats.

- Honeywell's best pneumatic thermostat-TP970 series.
- Shock-resistant, suspension-mounted thermostats provide dependable performance and responsiveness year in and year out.
- Pilot operated for high capacity.
- Direct Acting (DA) and Reverse Acting (RA) models are available.
- Wide throttling range models for Zero Energy Band (ZEB) operation are available.
- Adapter plate in Convertastat and Modernization kits covers existing thermostat wall mark.
- Backplate has molded air connections-no separate fittings needed.
- Universal locking cover with satin chrome finish and horizontal, vertical, or blank window options.
- Typical Wide Throttling Range Application.

Typical Standard Throttling Range Piping



Typical Wide Throttling Range Piping



Application Type: Heating

Dimensions, Approximate: 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep
(83 mm high x 51 mm wide x 41 mm deep)

Airflow Usage: 0.011 scfm (5.2 mL/s)

Number of Pipes: 2

Mounting: Wall mount

Operating Temperature: 100 F maximum

Storage Temperature: 150 F maximum (66 C maximum)

Remote Bulb: No

Setpoint: Single

Sensor Element: Bimetal

Maximum Operating Pressure: 25 psi (170 kPa)

Accessories:

AK3863-Honeywell Thermostat Tool Kit, TP970/TP900

CCT729A-Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.

CCT735A-Thermostat Calibration Tool includes Allen wrench for cover installation.

305965-1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with $\pm 4\%$ accuracy

14002362-001-Duct Sampling Chamber

14002430-001-Thermostat Guard

14004439-001-Setpoint Extension

14004447-001-Setpoint Cam Assembly for TP970A1004, A1012, A1020, A1038, A1046, A1053, A1095, A2004, A2012, A2020, A2038

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14004447-002-Setpoint Cam Assembly for TP970B1002, B1010, B1028, B1036, B2002, B2010, B2028, B2036; TP970D; TP972A1002, A1010, A1028, A1044, A2002, A2010, A2028, A2044; TP973B1009, B1017, B1025, B1108

14004447-005-Setpoint Cam Assembly for TP970B1044; TP972A1051, A1101

14004459-001-Repair kit consisting of a thermometer assembly, a thermometer post and a 60 to 90F aluminum scaleplate

Replacement Parts:

14001865-001-Filter Cartridge Assembly

14002053-001-Back Plate Assembly

14002573-001-Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic thermostats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

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Pneumatic Thermostats

Product Number	Action	Setpoint Temperature Range		Throttling Range		Includes	Comments**
		(F)	(C)	(F)	(C)		
TP970A2004/U	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970A2012/U	Direct Acting	40 F to 70 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970A2020/U	Direct Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Order Cover Separately	—
TP970A2038/U	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, large wall plate and satin chrome cover.	Modernization kit used to convert older Honeywell Thermostats.
TP970A2145/U	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970A2234/U	Direct Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970A2242/U	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and beige cover.	Convertastat Kit
TP970A2259/U	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat and satin chrome cover.	Tradeline Kit
TP970B2002/U	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970B2010/U	Reverse Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Order Cover Separately	—
TP970B2077/U	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970B2150/U	Reverse Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970B2166/U	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and beige cover.	Convertastat Kit
TP970B2182/U	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat and satin chrome cover.	Tradeline Kit
TP970C2000/U	Direct Acting	59 F to 90 F		5 F to 25 F	-15 C to -3 C	Order Cover Separately	Wide Throttling Range 5-25 F

A **Tradeline Kit includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) for new installations or to convert newer, small size Honeywell or competitor thermostat, not requiring a wall plate adapter.

A **Convertastat Kit™** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a small Universal Wall Plate Adapter to convert newer, small size Honeywell or competitor thermostats.

A **Modernization Kit** includes a TP970 Series thermostat with Satin Chrome Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a large Universal Wall Plate Adapter to convert older thermostats.