

Pneumatic Thermostats

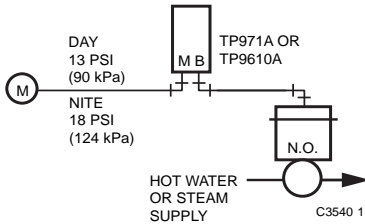
TP971 Pneumatic Day/Night Thermostat



Pneumatic thermostat with night setback 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.

- Durable TP970 series thermostat Pilot operated for high capacity.
- Direct Acting (DA) and Reverse Acting (RA) models are available.
- Three-pipe thermostats are available for unit ventilator applications where the outdoor damper must operate when the thermostat is manually set to day operation.
- Adapter plate in thermostat kits covers existing thermostat watermark.
- Backplate has molded air connections-no separate fittings needed.
- Universal Locking cover with satin chrome finish and horizontal, vertical, or blank window options-other covers available.

TP971 Typical Piping



Application Type: Wall Thermostat, Day/Night operation
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)
Mounting: Wall mount
Operating Temperature: 100 F maximum
Storage Temperature: 150 F maximum (66 C maximum)
Remote Bulb: No
Setpoint: Day/Night
Sensor Element: Bimetal
Maximum Operating Pressure: 25 psi (170 kPa)

Accessories:

- 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
- 14003192-001**-Wallplate adapter kit. Adapts HP970 or TP970 series thermostats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations
- 14004439-001**-Setpoint Extension
- 14004447-003**-Setpoint Cam Assembly for TP971A, C, D; TP972A1168, A2168, A2176

Replacement Parts:

- 14001865-001**-Filter Cartridge Assembly

Product Number	Action	Number of Pipes	Setpoint Temperature Range		Changeover		Throttling Range		Includes	Comments**
			(F)	(C)	(psi)	(kPa)	(F)	(C)		
TP971A2003/U	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2011/U	Direct Acting Heating, two temp.	2		Day: 15 C to 30 C, Night: 10 C to 27 C	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2029/U	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2052/U	Direct Acting Heating, two temp.	2		Day: 15 C to 30 C, Night: 10 C to 27 C	Day 16 psi, Night 21 psi	Day 110 kPa, 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2086/U	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 20 psi, Night 25 psi	Day 137 kPa, Night 172 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2102/U	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 13 psi, Night 18 psi or 16-20 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP971B2001/U	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—

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			(F)	(C)	(psi)	(kPa)	(F)	(C)		
TP971B2019/U	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971B2043/U	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 20 psi, Night 25 psi	Day 137 kPa, Night 172 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971C2009/U	Direct Acting Heating, two temp.	3	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line
TP971C2017/U	Direct Acting Heating, two temp.	3		Day: 15 C to 30 C, Night: 10 C to 27 C	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line
TP971C2025/U	Direct Acting Heating, two temp.	3	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line

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.