

PNEUMATICS & FITTINGS

SIEMENS/POWERS PNEUMATIC THERMOSTATS 192,193 SERIES



DESCRIPTION

The **Siemens/Powers 192 and 193 Series pneumatic room thermostats** are used to provide various types of control of pneumatic valves and damper actuators in heating and air conditioning systems. All use sensitive bimetals respond to temperature change to modulate control air through a flapper nozzle. These pneumatic thermostats produce a proportional output signal that modulate pneumatic valves and damper actuators in response to load changes in the space. A variety of high volume and low volume output thermostats are available to meet the functional requirements of any building automation system, BAS. The **192 and 193 Series pneumatic thermostats** are available in one- and two-pipe, dual temperature, day/night and auto-changeover configurations. Each **192 and 193 Series** chassis includes a wall plate for thermostat installation using a variety of rough-in installation kits. Air connections are made with 5/32" (4 mm) O.D. plastic tubing, directly to the thermostat chassis for retrofit applications or with plug-in adapters which slide into the wall mounting plate.

NEW!

SIEMENS
POWERS™



192, 193 Series

FEATURES

- *Direct and reverse acting models available*
- *Highly sensitive bi-metal thermostatic elements*
- *Individual field adjustable sensitivity with graduated scale*
- *Integral field adjustable limit stops*
- *Control pressure test port without removing cover*
- *Standard plastic covers in beige or white available*

SPECIFICATIONS

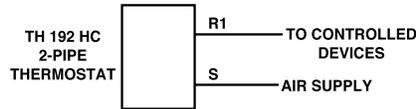
Control Action	Direct or reverse acting	Nominal Air Consumption	
Connections	Barbs for 5/32" OD poly tubing	192 Series	25 scim (6.8 ml/sec)
Number of Pipes	1 or 2 depending on model selected	Day/Night and Heat/Cool, two pipe	
Sensor Element	Bi-metal	192 Series	
Sensitivity Adjustment	1 to 4 psi/°F (12 to 50 kPa/°C)	Single Temperature	
Setpoint Temperature Ranges		One Pipe	25 scim (6.8 ml/sec)
	45 to 85°F (7 to 30°C)	Two Pipe	20 scim (5.5 ml/sec)
Temperature Response	0.1°F to (0.06°C)	193 Series	40 scim (11 ml/sec)
Dial Graduations	2°F (1°C)	Deadband	193 Series Only
Factory Settings		Output Pressure Adjustment	
Calibration	72°F (22°C) 7.5 psi (52 kPa)		1 to 15 psi (7 to 103 kPa)
Sensitivity	2.5 psi/°F (31 kPa/°C)	Range	0 to 40°F (0 to 20°C)
Limit Stop Adjustment	45°F and 85°F (7°C and 30°C)	Temperature	
Maximum Operating Pressure		Storage Temperature	-10 to 140°F (-23 to 60°C)
	30 psi (207 kPa)	Ambient Operating Temperature	
Normal Air Pressure	18 to 25 psi (124 to 172 kPa)		40 to 140°F (4 to 60°C)
		Standard Cover	Cyclac, desert beige
		Dimensions	3 11/32"H x 2 5/32"W x 1 19/32"D (8.5 x 5.5 x 4.0 cm)
		Shipping Weight	0.7 lbs. (0.3 Kg)
		Warranty	1 year



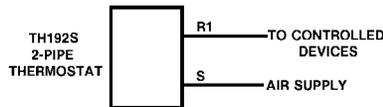
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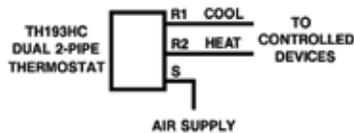
PIPING



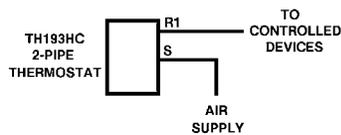
192-207, 192-208, 192-209, 192-210
Thermostat Connections



192-202, 192-203 Two-Pipe
Thermostat Connections



192-204, 192-208
Thermostat Dual Two-Pipe Connections



193-219, 193-220
Hesitation Thermostat Connections

ORDERING INFORMATION

MODEL	DESCRIPTION
192-202	Single Temperature, Two Pipe, DA
192-203	Single Temperature, Two Pipe, RA
192-204	Dual Temperature, Two Pipe, Day DA/Night RA
192-208	Dual Temperature, Two Pipe, Heat DA/Cool RA
192-841	TH192 Retrostat Kit with 192-203

MODEL	ACCESSORIES
192-362	Metal thermostat cover for 192 series thermostats
832-177	Pneumatic calibration kit with thermometer, gauge, squeeze bulb, fittings, 832-178 tool set and case
832-179	Pneumatic test head kit for single pipe transmitters includes gauge and case
832-178	Pneumatic calibration tools includes cover wrench, thermometer wrench, and test probe
192-632	Calibration and cover screw wrench (pack of 5)