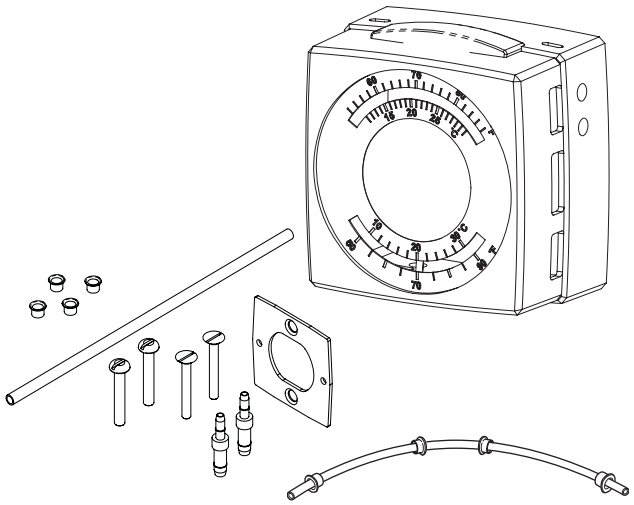
Model Chart

Model No.	Replaces Model No.	Dial Range °F (°C)	Air Consumption	Description (Refer to Following Pages for More Detail)
2211-012	T12-301	55 to 85 (13 to 29)	0.017 scfm at 20 psig (0.48 L/m at 138 kPa)	Single temperature, one-pipe, D.A.
2211-013	T13-301			Single temperature, one-pipe, R.A.
2212-118	T18-301	55 to 85 (13 to 29)	15.6 scim at 20 psig (4.2 mL/s at 138 kPa)	Single temperature, two-pipe, D.A., throttling range adjustable 2° to 12°.
2212-119	T19-301			Single temperature, two-pipe, R.A., throttling range adjustable 2° to 12°.
2212-618	—			
2212-619	—			Single temperature, two-pipe, R.A., throttling range adjustable 2° to 12° (includes 20-023).
2214-121	T23-301	Day 55 to 85 (13 to 29)	29.4 scim at 16 psig (8.0 mL/s at 110 kPa)	Day-Night Thermostat, two-pipe, D.A. 16 psig (110 kPa) day, 25 psig (172 kPa) night.
		Night 50 to 80 (10 to 27)	43.2 scim at 25 psig (11.8 mL/s at 172 kPa)	
2214-122	T24-301	Day 55 to 85 (13 to 29)	29.4 scim at 16 psig (8.0 mL/s at 110 kPa)	Day-Night Thermostat, two-pipe, R.A. 16 psig (110 kPa) day, 25 psig (172 kPa) night.
		Night 50 to 80 (10 to 27)	43.2 scim at 25 psig (11.8 mL/s at 172 Kpa)	
2216-126	T27-301	Day 55 to 85 (13 to 29)	29.4 scim at 16 psig (8.0 mL/s at 110 kPa)	Day-Night Thermostat, three-pipe, with manual reset lever D.A. 16 psig (110 kPa) day, D.A. 25 psig (172 kPa) night.
		Night 50 to 80 (10 to 27)	43.2 scim at 25 psig (11.8 mL/s at 172 Kpa)	
2218-132	T32-301	55 to 85 (13 to 29)	31.1 scim at 16 psig (8.5 mL/s at 110 kPa)	Summer-Winter, throttling range adjustable 2° to 12°. 16 psig (110 kPa) Main — R.A., Summer. 25 psig (172 kPa) Main — D.A., Winter. (Can be used with 8 psig summer main if recalibrated in the field.)
			43.2 scim at 25 psig (11.8 mL/s at 172 Kpa)	
2218-134	T32-321		22.5 scim at 13 psig (6.1 mL/s at 90 kPa)	Summer-Winter Thermostat for use with Honeywell 13 to 18 psig Systems. 13 psig (89 kPa) Main — R.A., Summer. 18 psig (124 kPa) Main — D.A., Winter.
			34.5 scim at 18 psig (9.4 mL/s at 124 kPa)	
2218-133	T33-301		29.4 scim at 15 psig (8 mL/s at 103 kPa)	Summer-Winter Thermostat for use with Johnson main air systems. 25 psig (172 kPa) Main — R.A., Summer. 16 psig (110 kPa) Main — D.A., Winter.
			34.5 scim at 20 psig (9.4 mL/s at 138 Kpa)	

Note: Includes 1/4" by 3/16" barbed couplings, 20-693 tubing kit, 22-024 standard mounting kit, 20-928 gray plastic cover with F/C listing.

Dual Setpoint/Deadband Room Thermostat

The dual setpoint/deadband pneumatic room thermostats are designed for the proportional control of pneumatic valves, damper actuators, and other control devices. With this product, the HVAC system uses no energy between pre-selected heating and cooling setpoints.



Features:

- Factory calibrated. Stainless steel ball-in-seat provides pneumatic feedback for linear, stable operation.
- Deadband is set by setting desired heating and cooling setpoints.
- Deadband output pressure factory set at 8 psig (55 kPa); field adjustable.
- Leakproof, O-Ring-sealed, spring-loaded self-closing branch gauge tap.

Model Chart

Model No.	Replaces Model No.	Description
2212-318	T35-301	Refer to Specifications.
2212-319	T36-301	

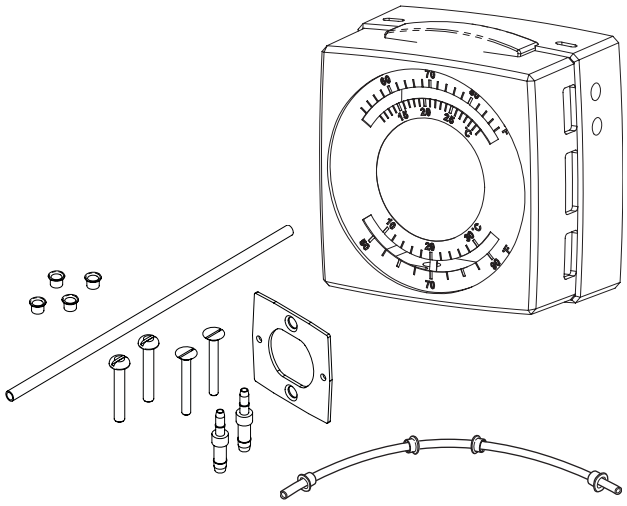
Note: Includes 1/4" by 3/16" barbed couplings, 20-693 tubing kit, 22-024 standard mounting kit, 20-928 gray plastic cover with F/C listing.

Specifications

Action	Proportional, with deadband.
2212-318	Direct.
2212-319	Reverse.
Setpoint range	
Heating	57 to 75°F (14 to 24°C).
Cooling	65 to 83°F (18 to 28°C).
Throttling range	Approximately 1.5°F/5 psi (0.8°C/0.7 kPa) for each setpoint non-adjustable.

Energy Conservation Summer-Winter Room Thermostat

This pneumatic room thermostat is designed for proportional control of pneumatic valves and damper actuators in environmental control systems where a dual pressure air main is utilized for seasonal changeover of heating and cooling functions. Its design incorporates a highly sensitive, bimetal, thermostatic element and a pilot operated relay with pneumatic feedback for accuracy and stability over the entire operating range.



Features:

- Small size: Approximately 2 x 2 in. (51 x 51 mm).
- Factory calibrated. Stainless steel ball-in-seat provides pneumatic feedback for linear, stable operation.
- Leakproof, O-Ring sealed, spring-loaded self-closing branch gauge tap.
- Separate bimetals (and setpoint scales) for heating and cooling.
- Limited setpoint ranges for energy conservation: 44 to 74°F (7 to 23°C) for winter (heating) and 76 to 85°F (24.5 to 29.5°C) for summer (cooling).
- Snap-acting (not gradual) changeover from direct action to reverse action, and vice versa.
- Concealed or visable adjustment. Image shows concealed adjustment.

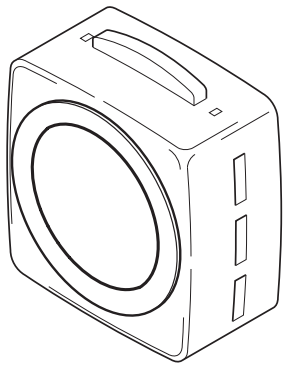
Model Chart

Model No.	Replaces Model No.	Description
2218-301	T34-3011	Refer to Specifications.

Note: Includes 1/4" by 3/16" barbed couplings, 20-693 tubing kit, 22-024 standard mounting kit, 20-928 gray plastic cover with F/C listing.

Room Temperature Transmitter

The temperature transmitter measures room temperature and transmits a proportional pneumatic signal to a calibrated receiver gauge and/or receiver controller. The device is factory set to transmit a 3 to 15 psig (20.7 to 103.4 kPa) signal over a 50 to 90°F range.



Features:

- Permits remote readout and control of room temperature.
- Highly sensitive bimetal sensing element.
- Linear response to room temperature changes.
- Matches appearance of 2 x 2 in. Thermostats, 2230-018 Humidistat, and 2232-053 R.H. Transmitter.
- Field-adjustable “zero” adjustment.

Model Chart

Model No.	Replaces Model No.	Description
2220-053	T53-101	Refer to Specifications.

Note: Includes 1/4" by 3/16" barbed couplings, 20-693 tubing kit, 22-024 standard mounting kit, 20-928 gray plastic cover with F/C listing.

Specifications

Action	Direct acting, proportional.
Temperature Range	50 to 90°F (10 to 32°C), fixed.
Construction	
Components	Die cast aluminum, stainless steel, and glass-filled nylon.
Diaphragms	Fabric-reinforced neoprene.
Air filter	Internal.
Supply air pressure	Clean, dry, oil free air required (Ref. EN-123).
Nominal	20 ±0.5 psig (138 kPa).
Maximum	30 psig (207 kPa).
Connections	For spring-reinforced 3/16 in. plastic tubing and required fittings (included).
Calibration point	Refer to Figure 1.
Mounting	Upright position on wall.
Dimensions	2-1/32 H x 2-1/32 W x 1-3/8 D in. (52 x 52 x 35 mm).

Application

2 X 2 Thermostat Installation Fittings, Accessories, Adaptors and Tools.

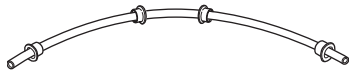
Description

3/16 in. tygothane tubing assembly with spring. One tube with four eyelets, but no fittings.

20-693

Replaces 10-11

Tubing



Application

2 X 2 Thermostat Installation Fittings, Accessories, Adaptors and Tools.

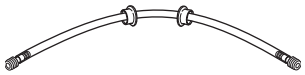
Description

3/16 in. tygothane tubing assembly, with spring, two eyelets, and two barbed fittings for 1/4 in. plastic tubing.

20-717

Replaces 10-64

Tubing



Application

2 X 2 Thermostat Installation Fittings, Accessories, Adaptors and Tools.

Description

Used for transmitters and bleed type units. 1.0 scfh (28.32 l/h) restrictor (1/4 in. O.D. compression) for use on 1/4 in. O.D. copper tubing or can be used on polythylene with insert.

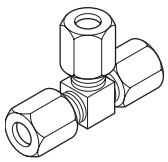
Also Replaces:

AT-532-098-1-1
AT-532-111-1-03

20-944

Replaces N4-32

Restrictor



Application

2 X 2 Thermostat Installation Restrictor, Restrictor Tees, and Thermostat Calibration Kit.

Description

1.0 scfh (28.32 l/h) restrictor tee for use with one-pipe thermostats or transmitters (1/4 in. polythylene or polyurethane tubing). Color: red.

Also Replaces:

AT-532-111-1-01
AT-532-111-1-02
AT-532-222-2-01
Use two 21-038 to replace AT-532-222-2-02

21-038

Replaces N100-0010 (N100-10)

Restrictor Tee