

# TW180 Multi-Fan Thermostat

Fan Coil, PTAC, Conventional

### **Precision Temperature Control**

The TW180 Thermostat provides accuracy and configuability for valves, dampers, relays and fans.

Easy single set point technology provides accurate control of temperature settings.

## **System Configurations**

Designed to meet a variety of configuration needs:

- · Programable or Non-programmable
- · Auto-Heat-Cool-OFF System Modes
- Control for up to 2 Heat/1Cool
- Fan Auto/On with 1 to 3 Speeds
- NO / NC Heat 1 and Cool Operation
- Occupancy Setback Control

### **Applications**

Highly versatile control for a variety of applications including hotels, dorms and condos.

- · Fan Coil
- PTAC
- Conventional HVAC

The TW180 includes an easily configurable service menu to allow fast system set up of requirements to limit operation, match user preferences or meet local codes.

#### **Application Support**

Contact PECO to optimize feature selection that meet your requirements at Controls@astronics.com.

#### **KEY BENEFITS**

- Remote, Local or Averaged Temperature Sensing
- · Control for Relays, Valves and Dampers
- User or Auto Staged Fan Speeds
- Keypad Lock out with PIN
- Seasonal Summer-Winter Change Over for Fan Coils
- Fan Coil 2-Pipe/4-Pipe Settings
- Multiple Fault Notifications
- · Door Open Shut Down
- · Programmable Fan
- · Holiday Scheduling
- °F or °C Operation



### Wiring Diagram

#### 120-277 VAC Operation **~** ™2-1 TB2-2 TB2-3 Input Power Jumper (Default Postion) for 120-277 VAC Operation. THERMOSTAT CONNECTIONS Black (Switched Side) L1 HOT Yellow L2 Neutral Voltage HEAT 1 Blue COOL FAN HI CAUTION Individually wirenut FAN MED off unused leads FAN LO Outside Air or HEAT 2 TB1-1 🕢 Low Voltage TB1-2 Unused Remote Temperature Sensor TB1-3 **△** TB1-4 <a>∅</a> ■ TB1-5 🕡 Door/ Window Switch TB1-6 ₩ Sensor Common TB1-7

<b>7</b> TB2-1	MOVE Input Power Jumper to TB2-1 and TB2-2
田FRMOSTAT CONNECTIONS	Part of the first state of the f
BB1-1	24 VAC 2  Remote Temperature Sensor  Pipe Sensor
TB1-5 TB1-6 TB1-7	Occupancy Door/ Window Switch Sensor Common

24 VAC Operation



Model	Part No.	Description	
TW180-1	74023	Performance Pro Multi-Fan Thermostat	
Remote Sensor	68671	Temp Probe for Return Air or Pipe Sensor	
SP155-017	69308	Indoor Wall Mounted Remote Sensor	
SB200-001	68345	Occupancy Sensor with time delays	
SE200-001	68379	Door Switch	

### **Get Started Today**

For additional details, please contact PECO Control Systems.

11241 SE Highway 212 Clackamas, OR 97015 503-387-6410 Controls@astronics.com PECOcontrolsystems.com



### PRODUCT SPECIFICATIONS

#### **Output Ratings**

Ratings							
Voltage	Inductive		Resistive	Pilot Duty			
Voltage	FLA	LRA	Resistive File	Filot Duty			
24 VAC	NA	NA	NA	24 VA			
120 VAC	4.4	26.4	4.5	125 VA			
240 VAC	2.2	13.2	4.3	125 VA			
277 VAC	1.8	10.8	4.2	125 VA			
COMBINED LOAD CURRENT NOT TO EXCEED 20 AMPS							

### **Technical Data**

- Temperature Control Range: 50° to 90° F (10° to 32° C)
- Differential: 1° F (0.5°C)
- Operating Temperature: 0° to 120°F (-18° to 49°C)
- Operating Humidity: 5% to 95% RH, non-condensing
- Physical Dimensions: 4.4" H x 5.9" W x 1.5"D
- Connections: Wire leads for System

Terminal Blocks for Accessories

The PECO® Performance PRO™ TW180 APPLICATIONS INCLUDE fan coil, PTAC and Conventional system with a single, multi speed or staged Fan.