



## Low Voltage Modulating Thermostat

Manufacturer: Neptronics

Model: PTA

Features: 1 Heat / 1 Cool  
Modulating Control w/  
one addition PWM output for heating  
Night Setback Input

### Description

The neptronic PTA is a wall mounted, microprocessor based, modulating thermostat, designed for zone air conditioning applications. Outputs for heating and cooling are 0-10 vdc, with an additional 0 or 22 vdc PWM output, which can be used to trigger triac switches or solid state relays to modulate electrical heaters.

The neptronics PTA thermostat is compatible with all standard 24 VAC heating and cooling systems and is mercury-free, not only making it environmentally safe, but eliminates the need for leveling.

### Specifications

Rated Voltage: 24 VAC, +/-15%

Power Consumption: 24 VA max

#### Night Set Back

Inputs: 0-10 vdc for 0 to 12°F deadband expansion  
24 VAC for 14°F deadband expansion

Outputs: 0-10 vdc, cooling ramp 1 & 2  
0-10 vdc, heating ramp 1 & 2  
0 or 22 vdc PWM (Pulse Width Modulating)

Minimum Position: 0-9 vdc independently adjustable for heating ramp 1 and cooling ramp 1. Does not affect heating ramp 2 and cooling ramp 2

Operating Temperature: 32° to 110°F (0° to 45°C)

Setpoint Range: 57° to 88°F (14° to 31°C)

Deadband: +/-0.5°F (+/-0.3°C)

Proportional Band: 3.5°F or 7°F (2°C or 4°C)

## Model Selection

Model Number	Description	List Price
PTA	1 Heat / 1 Cool Modulating outputs w/ one additional PWM output for heating	\$149.00 ea.

## Accessories Selection

Model Number	Description	List Price
WS100	Remote, Room Sensor	\$49.50 ea.
DS100	Remote, Duct Sensor	\$48.00 ea.

## Features / Benefits / Applications

- Night Setback Input
- Remote Temperature Sensor Input
- No Sub-base
- Selectable Celsius or Fahrenheit temperature display
- Does not require batteries
- Environmentally safe
- Mercury-free

## Specifying Information

The EM Warehouse has many years of experience in spec writing, design-build and interpretation of written specifications. If we can assist you in this area just E-mail your requirements to [emw@ecs-controls.com](mailto:emw@ecs-controls.com).

## Ordering Information

Please contact an EM Warehouse (EMW) representative for the following:

- Wholesale Discount Multiplier - Issued to resellers, contractors and holders of an EIN.
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- Order placement - Place your order and receive confirmation on delivery.
- Request manufacturer data sheets - A detailed description of the product information and schematics.
- Request addition information - We are here to assist you in finding answers and alternatives.

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You can reach us by the telephone and fax numbers listed below or E-mail us at [emw@ecs-controls.com](mailto:emw@ecs-controls.com).  
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