



Low Voltage Modulating Thermostat

Manufacturer: Erie

Model: TB158-002

Features: Digital Non-Programmable
2 Heat / 1 Cool
Manual or Auto Changeover

Plus... Line Voltage 3 Speed Fan Control
3 Wire Floating / On-Off Control
Remote Setback Capability
Remote and Seasonal Changeover Sensor
Built-in Purge Cycle

Description

The TB158-002 microprocessor based thermostat/controller with digital display provides a combination of 3-wire floating and on/off control, as well as manual or automatic changeover. This thermostat controls a variety of two-pipe and four-pipe fan coil units, air handling units, heat pumps, unitary equipment, and various heating and cooling applications.

The microprocessor provides precise and stable control under varying system capacity and load conditions, without the need for tuning and calibrating the control system in the field. The digital display of set point, ambient temperature and operating mode provide the user with an attractive and functional controller that is easy to use.

The TB158-002 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: 20-28 VAC, 24 nominal

Power Consumption: 25mA, Maximum at 24VAC

Fan & System

Switch Ratings: 24 VA at 24VAC
125 VA at 120/277 VAC

Heating / Cooling

Output Ratings: 10 VA at 24 VAC

Setpoint

Adjustment Range: 50° to 90°F (10° to 32°C)

Thermostat

Measurement Range: 32° to 130°F or 0° to 55°C

Minimum Deadband: (between heating and cooling)
3°F or 1.6°C

Proportional Band: 2°F or 1°C

Model Selection

Model Number	Description	List Price
TB158-002	2 Heat / 1 Cool digital thermostat w/ manual or auto changeover plus 5 unique features	\$373.00 ea.

Accessories Selection

Model Number	Description	List Price
65406	Remote and seasonal changeover sensor	\$26.50 ea.
65345	4" x 4" Adapter plate	\$18.00 ea.

Features / Benefits / Applications

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|--|---|---|
| <ul style="list-style-type: none"> ● Digital LCD display ● Manual or automatic changeover ● Remote and seasonal changeover sensor ● Line voltage 3-speed fan control | <ul style="list-style-type: none"> ● Built-in purge cycle assists the controller to determine heating or cooling mode ● Selectable Celsius or Fahrenheit temperature display ● Remote setback capability from a time clock or energy management system ● Heating and cooling outputs are individually configurable for 3-wire floating and on/off control | <ul style="list-style-type: none"> ● Quick wire terminal block ● Environmentally safe ● Mercury-free ● No leveling required |
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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.

Ordering Information

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

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- 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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