

## Floor Heating Multi-Purpose Thermostat ATMT24

Digital flush-mounted thermostat with stylish and modern design (3) modes: "Heat", "Cool" and "Auto" (automatic) eliminating the need to install additional thermostats.

Push button selection of modes and temperature eliminates complicated programming making the ATMT-24 user friendly. Air and external floor temperature sensors are designed to offer the greatest precision of comfort for floor heating systems, even when combined with other heating or cooling systems.

### Smart Control and Unique Energy Management

Alfasmart is proud to offer simplicity by setting desired air and floor temperatures, and the ATMT24 thermostat does the rest in giving 7 modes operating to maximize your comfort level and energy efficiency:

- 1- One Stage Heat mode only(Red LED): Room temperature is maintained with a 1°F(0.5°C) accuracy of desired setting by activating the heating system.
- 2/3- Floor heat mode: on/off option, a minimum floor temperature can be maintained to offer greater comfort during heating and/or cooling. If floor heating is the main heat source you would normally set floor temperature equal to desired room temperature to offer a quick response when a heat mode is activated. During cooling with air conditioning system you can prevent excessively cold floors.
- 4- One Stage Cool mode only(Green LED ): Room temperature is maintained with a 1°F(.5°C) accuracy of desired setting by activating an air conditioning system.
- 5/6- Auto Heat/Cool mode(Red & Green LED): Special automatic mode of operating will select by itself "Cool" or "Heat" according to changes to ambient air temperature compared to "set-point" desired temperature. This unique feature allows you to maintain comfort during those in between days of spring and fall when solar gain can cause overheating but eliminate the "Conflict" between heating & cooling. Heat demand is "ON" at temp drop by 2°F(1°C) below room "set-point" temp. Cooling demand is "ON" upon temp rise of 2°F (1°C) above room temp "set-point" and is "OFF" equal to "set-point" temp.
- 7- BMS features: Building Management System (BMS) offers an external input from a central system to shut the thermostat off allowing many energy management possibilities.

### Available Models

ATMT24-1 – Offers 1 stage Heat - 1 stage Cool with external floor sensor

ATMT24-2 – Offers 2 stage Heat - 2 stage Cool with external floor sensor

2nd stage is activated with 1.25°F(0.7°C) of first stage Heat or Cool

 **ALFASMART**  
Energy Management



## Specifications:

- Digital Display – 7 Segments, Green Color with Decimal Point. Resolution: 1°F(0.5°C)
- Temperature display selection in °C or °F upon user demand.
- Temperature range of room thermostat- setting 50 to 86°F(10 to 30°C), Adjustable.
- Floor thermostat temperature: Range setting: 60 to 90°F(15 to 32°C), Adjustable.
- High temperature shut off of floor heating at inslab temperature of 95°F(35°C) to help protect over heating with “ALr” display and automatic reset at 93°F(34°C).
- Temp accuracy:1°F(+/- 0.5°C).
- Differential: 1°F(0.5°C).
- Output relays rating: 3A@24 VAC
- Operation voltage range:24 VAC +/- 10% (21.6 VAC to 26.4 VAC).
- Electric power: 24 VAC, 50/60 Hz.
- “BMS” input to shut down the system from external input. Operating voltage-24 VAC
- Operation relative humidity: 10% to 90% (None condensing).
- Internal & remote temperature sensor: 10K OHM at 77°F(25 °C), NCT.
- Storage environment: -22 to 149 °F(-30 to 60°C,) with 5% to 95% RH, non-condensing
- Dimensions: (4.5x3x1.8 inches) 115x80x45mm

## Connections:

Terminal block with 7 or 9 screw connections

- Floor sensor.
- BMS optional input.
- Power supply 24VAC.
- Heat output.
- Cool output

## Display Features:

- |                                  |         |
|----------------------------------|---------|
| a. Switch-Off mode               | - “OFF” |
| b. Short-circuit at room sensor  | - “ER2” |
| c. Disconnect at room sensor     | - “ER3” |
| d. Short-circuit at floor sensor | - “ER4” |
| e. Disconnect at floor sensor    | - “ER5” |
| f. “BMS” – active                | - “StP” |
| g. Floor sensor deactivated      | - “IdL” |
| h. Floor temp. over heating      | - “ALr” |



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