Electronic heating thermostat designed to be installed in a standard single gang electrical box with a minimum width of 2-1/4". Once installed, it requires no maintenance.

A LED illuminates to indicate “call” for heating, this also aids in system testing (Fig. 1 C). An On/Off selector switch on the front of the thermostat makes system operation extremely simple.

**PRODUCT LINE**

| 240 V supply | P/N 29003 with built-in floor sensor |
| 120 V supply | P/N 29004 with built-in floor sensor |

**APPROVAL** (only 120/240V, 60 Hz)
MTD thermostats are UL and cUL listed and meet UL8730-1 and UL8730-2-9 standards for temperature indicating and regulating equipment.

**CLASSIFICATION**
The product is class II device (240V, 120V)

**WARNING – Important Safety Instructions.**
Isolate supply before carrying out any installation or maintenance work on this control unit and associated components. This control unit and associated components should only be installed by a competent person (i.e., qualified electrician). Electrical installation to be in accordance with latest IEE Wiring Regulations and appropriate Statutory Regulations.

Warranty is void if not installed according to this instruction and proper procedure.

**TECHNICAL DATA**

- Power supply (model dependent) 120 and 240 V.
- Output relay, SPST, 16A, P/N 29003/29004 (resistive load).
- Built-in switch, 2 pole, 16A.
- Ambient operating temperature: -32 to 122°F (-35 to 50°C).
- Scale range: 40 to 104°F (5 to 40°C).
- On/Off differential: 0.7°F (0.4°C).
- Enclosure: IP20.
- Dimensions (HxWxD): 4.5 x 53 x 3.5 inches (115 x 84 x 50 mm).

**Environment and Recycling**
Please help us to protect the environment by disposing of the packaging in accordance with the national regulations for waste processing.

**Recycling of Obsolete Appliances**
Appliances with this label must not be disposed off with the general waste. They must be collected separately and disposed of according to local regulations.

**MOUNTING OF FLOOR SENSOR**
Floor sensor: Placed in an approved non-conductive installation pipe in accordance with EN 61386-1, which is embedded in the floor. The pipe is closed in the end and placed as high as possible in the concrete layer. The installation pipe must be centered in between the heating cable.

Sensor cable can be extended up to 150 m (by means of a separate cable (18 gauge)).

The switching peaks of such current supply lines may create interfering signals that prevent optimum controller function. If a shielded cable is used, the shield must not be earthed but must be connected to terminal 6. The two-core cable must be placed in a separate pipe.

**ERROR DETECTION**
The thermostat has built-in error detection which will de-energize the heating circuit if the sensor is damaged or if it detects an open or shorted sensor circuit.

**CAUTION**
Disconnect all electrical power prior to installing or servicing this unit.

**THERMOSTAT INSTALLATION** (Fig. 1-3)
1. Remove thermostat knob, noting the position (A).
2. Loosen screw to remove frame and cover (B).
3. Attach wiring from the rear of the thermostat according to the wiring diagram.
4. The thermostat is to be mounted in a standard single gang electrical box with a minimum width of 2-1/4".

- Re-install frame and cover.

**TEMPERATURE SETBACK** (Fig. 2-3)
Room temperature can be set back during unoccupied times via a remote time switch. The time switch must be the same voltage as the thermostat type and it must switch the same voltage as required by the thermostat, all wiring must be in accordance with Fig. 3. The setback temperature is adjustable with a screwdriver 3-14°F (2-8°C).

**TEMPERATURE SETTING/ADJUSTMENT**
Adjust the temperature knob to the desired floor temperature, if after a few days you find the temperature to be different from the setting, adjustments can be made as follows: Measure the room temperature with a thermometer, remove the knob without rotating it, then reposition the knob according to the measured temperature on the scale and re-install it.

**MAXIMUM/MINIMUM ROOM TEMPERATURE** (Fig. 1)
Behind the knob there are red and blue looking rings held in position by a screw. To set the limitations, loosen the screw (D) and adjust the red limit ring to the desired maximum, set the blue ring to the desired minimum, then tighten the screw. The knob must be re-installed exactly as it was removed.

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