INSTRUCTIONS

Thermostat with room sensor and floor sensor

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. The thermostat has an adjustable limit sensor (floor sensor) which can be set to maintain a minimum floor temperature or to protect the floor via a maximum temperature setting.

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

| Output relay, SPST/P/N29007/29008 (resistive load) | 16A |
| Built-in switch | 2 pole, 16A |
| Ambient operating temperature | -32° - 122°F |
| Scale limitation | min-max 40-104°F (5-40°C) |
| Temperature setback | adjustable |
| On/Off differential | 0.7° (0.4°C) |
| Enclosure | JP20 |
| Dimensions (h x w x d) | 4.5 x 53.3 x 52.0 |
| Environment and recycling | (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 of 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 61338-1, 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° (50 m) by means of a separate cable (18 gauge). If the extension cable is lighter than H05VV-F, it shall equally be installed in an unbroken installation pipe between the sensor cable and the extension cable. Two remaining cores of a multi-core cable with which, for example, supplies current to the floor heating wires, must not be used. The switching peaks of such current supply lines may create interfering signals that prevent optimal 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 the knob in the proper position.

LIMIT SENSOR/SETTING AND OPERATION

(Fig. 2)

Minimum limitation:

Adjustable 59-88°F (15-30°C), typical use is to maintain a warm floor temperature when there is intermittent heating demand as typically encountered in the spring or fall.

Maximum limitation:

Adjustable 77-122°F (25-50°C), typical use is to protect the heating element or floor from extremely high temperatures.

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 Figure 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 room or floor temperature, if after a few days you find the temperature to be different from the setting, adjustment 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 locking 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 temperature, then retighten the screw. The knob must be re-installed exactly as it was removed.

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