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UDG-4999 THERMOSTAT

Electronic Floor Warming Thermostat with Built-In GFCI

Detail 1. UDG-4999 controls and display.

DESCRIPTION

The UDG-4999 is an “all-in-one” programmable thermostat for electric in-floor heating control. This unit is designed for 120/208/240VAC, 50/60 Hz supply.

The UDG-4999 controls floor temperature by means of a thermistor embedded under the floor covering. Please refer to the heating cable installation instructions for acceptable embedding materials.

GFCI

The UDG-4999 features a built-in Class A GFCI (Ground Fault Circuit Interrupter). Should a ground fault occur, the GFCI disconnects both lines to the heating element.

UDG-4999 THERMOSTAT

- Simple user interface
- Monitored energy consumption
- Multi-voltage: 120-240 VAC
- Large back-lit display for easy reading
- Class A GFCI
- Switches 15 amp load
- Compatible with existing floor sensors

UDG-4999 SPECIFICATIONS

Supply:	120-240 VAC 50/60 Hz
Load:	15 amps max. (resistive load)
Power:	Maximum 1,800 W, 120 VAC
	Maximum 3,120 W, 208 VAC
	Maximum 3,600 W, 240 VAC
GFCI:	Class A (5 mA trip level)
Temperature Range:	41 to 104°F (5 to 40°C)
Floor Limit Range:	41 to 104°F (5 to 40°C)
Ambient Temp. Range:	32 to 104°F (0 to 40°C)
Clock Function:	4-event program
On/Off Differential:	0.7°F (0.4°C)
Floor Sensor Type:	Thermistor (12 KΩ) 10 ft (3 m)
Dimensions (H/W/D):	4.8/3.0/1.0 inch (123/75/25mm)

APPLICATIONS

Floor Warming Systems

APPROVALS

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DELTA-THERM Corporation, P.O. Box 345, Wauconda IL, 60084 (847) 526-2407 Fax (847) 526-4456 **(800) 526-7887**

SET-POINT TEMPERATURE PROGRAMMING

The UDG-4999 is a programmable thermostat that can be set to automatic, manual, or comfort mode. The thermostat is supplied in automatic mode with pre-programmed factory set-point temperatures and event time settings. The automatic mode set-point temperature and event settings can be changed by the end user. The end user can also reprogram the thermostat to automatic adaptive mode, manual mode, or comfort mode.

Automatic Mode

The UDG-4999 can be programmed to automatically activate the heating cable, to start raising the floor temperature to set-point temperature at pre-set times on different days of the week.

Automatic Mode Adaptive Function

The UDG-4999 can be programmed to automatically determine when to activate the heating cable, so that the floor temperature reaches set-point temperature at pre-set times on different days of the week.

Comfort Mode

The set-point temperature can be temporarily changed for single programmed time. The set-point temperature is automatically reset after a selected number of hours and will return to automatic mode.

Manual Mode

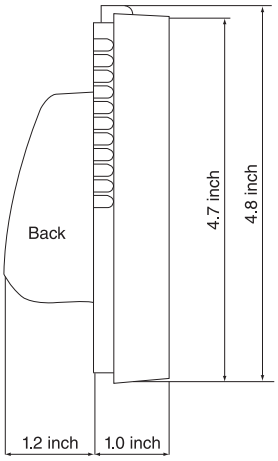
The automatic mode can be switched to manual mode, and the set-point temperature will remain active until the end user changes it or returns to automatic mode. This is useful if the heated space is to remain unoccupied for a long period. For example: when vacationing the end user may wish to lower the set-point temperature to lower their energy bill.

THERMISTOR PROGRAMMING

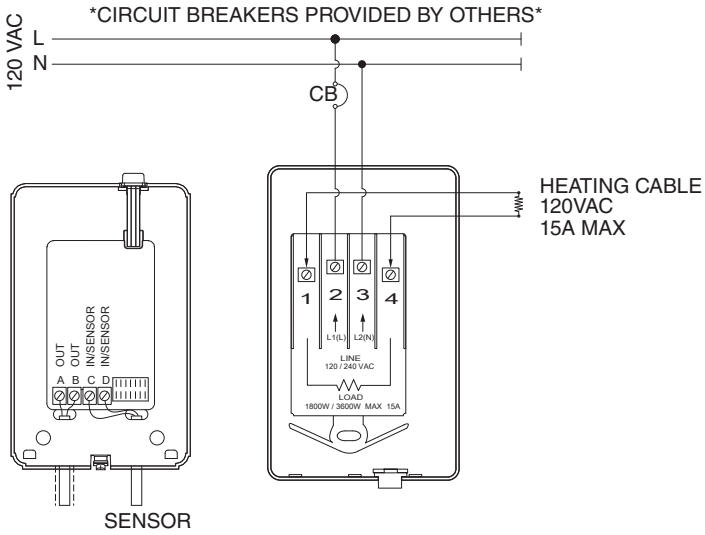
The UDG-4999 thermistor can also be programmed with a high temperature set-point limitation.

BACKUP FUNCTION

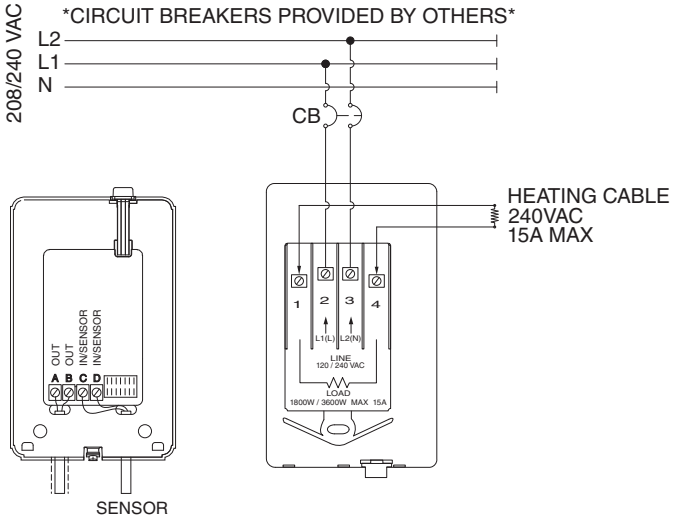
In the event of a power failure, an internal circuit will maintain the programming and time. However, the time must be reset if the power failure exceeds two hours.



Detail 1. UDG-4999 housing dimensions.



Detail 2. UDG-4999 120 VAC wiring diagram.



Detail 3. UDG-4999 208/240 VAC wiring diagram.

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