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Electronic Thermostats

For Radiant Heating


OJ ELECTRONICS
building on partnership

www.na.heating.danfoss.com

Thermostat Range

Design: Danfoss offers a complete selection of elegantly designed thermostats for hot water radiant heating systems.

Function: Room temperature is controlled by an NTC electronic sensor, which is so accurate that it operates with a differential of only 0.7°F (0.4°C). A red LED illuminates on a call for heat, indicating the system is in operation.

Setting: Available in either Fahrenheit or Celsius, the thermostats are very easy to set and offer a built-in temperature limitation, should you desire to limit the adjustment.

Selection of thermostat type

The correct selection depends on the primary purpose of the radiant heating system. If room heating is the primary concern, then a thermostat with a built-in "room sensor" should be selected. If the primary purpose is to provide a comfortable background or a dry floor, ie: floor warming, then a thermostat with a floor sensor should be selected. Voltage depending, all thermostats can be used to operate a zone valve, pump or actuator installed on a manifold, thereby providing individual loop or room control.

Room thermostat incl. limitation sensor

Type MTD "dual" thermostat includes a room sensor and a floor sensor, the floor sensor acts as a limitation sensor. When used for minimum limitation, adjustable 59-86°F (15-30°C), it ensures a minimum temperature of the floor regardless of the room temperature. Used for maximum limitation, 77-122°F (25-50°C), the sensor protects the heating element, radiant floor or ceiling against excessive temperatures and its possible damage.

Setback modes

Type MTD with setback modes:

The setback of temperature is controlled by an external wired contact timer. Setback is adjustable from 4-14°F (2-8°C) by a built-in potentiometer.

Radiant heating application

The desired room or floor temperature is easily set by the dial on the face of the thermostat. The thermostat can control a valve actuator for the floor heating unit with an accuracy of just 0.7°F (0.4°C) between the ON and the OFF action (differential). The actuator should be of an approved type with an opening and closing time of 3 to 5 minutes.

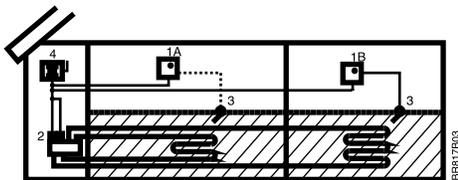
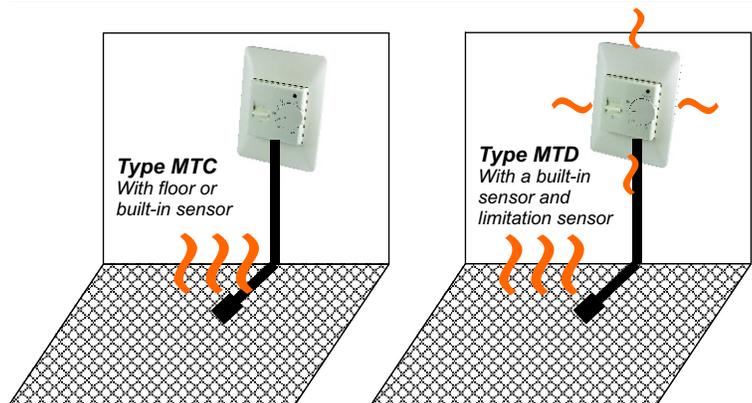


Fig.1

MTC - FLOOR OR ROOM TEMPERATURE CONTROL			
		Fahrenheit	Centigrade
Code Number	Floor	MTC39914UF	MTC39914UC
	Room	MTC39994UF	MTC39994UC
Scale Range		50 to 122°F	10 to 50°C
Differential (fixed)		0.7°F	0.4°C
Ambient Temperature		32 to 122°F	0 to 50°C
Size HxWxD		4.5x3x2 inches	115x84x50 mm
Sensor Length		10 Ft. (3M) extendable to 150Ft (50M)	
Supply Voltage		24VAC +10%/15%	
Dry Contact Rating		2A	

MTD - ROOM TEMPERATURE CONTROL AND FLOOR TEMPERATURE LIMITATION			
		Fahrenheit	Centigrade
Code Number	MTD39994UF		MTD39994UC
Scale Range		40 to 104°F	5 to 40°C
Differential (fixed)		0.7°F	0.4°C
Ambient Temperature		32 to 122°F	0 to 50°C
Temperature Limitation - Min. Setting		59 to 86°F	15 to 30°C
Temperature Limitation - Max. Setting		77 to 122°F	25 to 50°C
Size HxWxD		4.5x3x2 inches	115x84x50 mm
Sensor Length		10 Ft. (3M) extendable to 150Ft (50M)	
Supply Voltage		24VAC +10%/15%	
Dry Contact Rating		2A	



NOTE: For information on electric 120V and 240V models please contact your local Danfoss Representative.

