TM-11x1 Series Room Temperature Module

Description

The TM-11x1 Series of Room Temperature Modules are designed for use with the TC-9102 Direct Digital Control (DDC) terminal unit controller. The setpoint dial enables the room occupant to adjust the working setpoint of the controller. On scaled models, the marked adjustment range is 55 to 85°F; the controller determines the actual setpoint. On Warmer/Cooler models, the adjustment range is marked +/- from the midpoint of the dial; the controller determines the equivalent setpoint temperature.

With the occupancy button, the occupant can switch the controller's operation mode between occupied and standby. In addition, the TM-11x1 Series offers the option of a temporary occupied mode during unoccupied mode.

The TM-11x1 Series Room Temperature Module also features a Light-Emitting Diode (LED) that indicates the current operating mode.

For TC-9102 Fan Coil Unit controllers, a Room Temperature Module with a 3-speed fan override dial is available, and models without a temperature sensor are provided for applications where the room temperature sensor is mounted inside the Fan Coil Unit.

Features

- modern and attractive cover—blends in with room decor
- plug-in mounting base snap-on cover—enables easy installation
- mounting base terminals—enable easy wiring and commissioning
- optional occupancy override button—enables user to switch operating mode between occupied and standby, or request temporary occupied mode during unoccupied mode
- external LED mode indicator—indicates controller's current operating mode.
- 3-speed fan override—allows manual control of fan speed to ensure occupant comfort
- optional occupied mode during unoccupied mode—enables a temporary occupied mode using occupied setpoints during unoccupied mode

TM-11x1 Series Room Temperature Modules

Repair Information

If the TM-11x1 Series Room Temperature Module fails to operate within its specifications, replace the unit. For a replacement TM-11x1 Series Module, contact the nearest Johnson Controls® representative.

Selection Charts.

Ordering Codes for TM-11x1 Series Room Temperature Modules

Code	Option			
	Fan Speed Override	Occupancy Button	Temperature Setpoint Dial Scale	Built-in Sensor
TM-1141-0000	---	---	---	NTC 2K2
TM-1151-0000	---	Yes	---	NTC 2K2
TM-1161-0000	---	Yes	55–85°F	NTC 2K2
TM-1161-0002	3-speed fan override	Yes	55–85°F	NTC 2K2
TM-1161-0005	---	Yes	None, ± (Warmer/Cooler)	NTC 2K2
TM-1161-0007	3-speed fan override	Yes	None, ± (Warmer/Cooler)	NTC 2K2
TM-1191-0000	---	---	55–85°F	NTC 2K2
TM-1191-0005	---	---	None, ± (Warmer/Cooler)	NTC 2K2

Ordering Codes for TM-11x1 Series Room Temperature Module Accessories

Code	Description
T-4000-119 Allen-head Tool	1/16 in. (1.5 mm) Allen-head tool used to tighten/loosen cover security screw

Technical Specifications

TM-11x1 Series Room Temperature Module (Part 1 of 2)

Supply Voltage	Powered from the TC-9102 controller
Ambient Operating Conditions	0 to 50°C (32 to 122°F) 10 to 90% RH noncondensing
Ambient Storage Conditions	-40 to 70°C (-40 to 158°F) 5 to 95% RH noncondensing
Terminations	Terminal block in base for 1 x 1.5 mm^2 (maximum) cable
Temperature Sensor	NTC Thermistor 0 to 40°C (32 to 104°F), 2,252 ohm at 25°C (77°F)
Setpoint	0–5 VDC via 10k ohm potentiometer marked for 55 to 85°F or +/- (5F°)
3-Speed Fan Override	0–5 VDC via 10k ohm logarithmic potentiometer, detents at 0, 1.25, 2.50, 3.75, and 5.00 VDC corresponding to front cover markings for Auto, Off, I (low speed), II (medium speed), and III (high speed).
Occupancy Button	Momentary contact (switches 5 V at 1 mA)
Mode Indicator	Green LED (5 V, 4 mA)

TM-11x1 Series Room Temperature Module (Continued)

TM-11x1 Series Room Temperature Module (Part 2 of 2)

Mounting	Direct surface mount, plastic base for surface mount with wiring conduits.	
Materials	Enclosure Base Occupancy Override Button Fan Speed Override Dial Setpoint Dial	ABS+PC; self-extinguishing HB UL94
Colors	Enclosure Base Occupancy Override Button Fan Speed Override Dial	RAL9016 (GE86280)
	Setpoint Dial	RAL7047 (GE GY81118)
Protection Class	Enclosure	IP30 (EN 60529)
Dimensions (H x W x S)	TM-1141-0000 TM-1151-0000	120 mm x 80 mm x 32 mm (4.72 in. x 3.15 in. x 1.26 in.)
	TM-1161-000x TM-1191-000x	120 mm x 80 mm x 35 mm (4.72 in. x 3.15 in. x 1.38 in.)
Shipping Weight	0.20 kg (0.44 lb)	
Compliance	EMC Directive 2004/108/EC	EN-61000-6-2