

Modular Room Control (MRC) Series Digital Thermostat



MRC Digital Thermostat
with On-Board PIR

Description

The MRC Digital Thermostat is an expandable multi-purpose, high-quality Direct Digital Control (DDC) illuminated thermostat designed to control virtually any Fan Coil Unit (FCU) or Packaged Terminal Air Conditioning (PTAC) found in hotel guestrooms. The MRC comes standard with five relays, and can be equipped with an on-board Infrared (IR) transceiver and Passive Infrared (PIR) occupancy sensor. Coupled with a magnetic door switch (wired or wireless) the MRC becomes the brain of a highly effective Energy Management System (EMS) for guestrooms.

When connected to a Central Interface Network (CINET) with a pair of low voltage wires, a centrally controlled EMS package is created. The MRC is readily expandable to include functionality such as humidity control, outside temperature display, mini-bar access reporting, occupancy reporting to housekeeping, automatic control of lights, and much more. Use of infrared or low voltage wiring enables remote control of lights, occupancy reporting, and other functions.

Features

- central control, with multiple services integrated on a common platform, provides fully automated guest room control and a communication system for the lodging industry, with the ability to tie together the guest rooms and other systems within the hotel, including the Property Management and Building Automation System
- Passive Infrared (PIR) and entry door access detection provides reliable and automatic energy management by activating programmable temperature setbacks when the guestroom is unoccupied
- exceptionally versatile lighting controls designed specifically for hotel guestrooms allow guests to control their lighting environment remotely —and, the controls can be programmed to turn on one or more selected lights when guests first enter the room, after check-in, creating a warm, welcoming guest room ambiance
- Infrared (IR) technology provides areas with high labor costs, or restrictive electrical codes, practically wireless installation with the unique IR capability
- “Do-Not-Disturb/Make-Up-Room and Door Chime” System add to the guests’ amenities and eliminates the use of old-fashioned, outdated hanging cards and the need for staff to knock or yell through the door to guests — guests can effortlessly interact with hotel staff and services.
- Central Electronic Lock System (CELS) provides hotel operational efficiency and greater guest security when the door locks are controlled via this wireless, real-time, on-line lock control system

Specifications

Modular Room Control (MRC) Series Digital Thermostat	
Power Requirements	24 VAC at 50/60 Hz, 24 VDC Nominal, 2.4 VA 100 to 240 VAC at 50/60 Hz., 2.4 VA 265 to 277 VAC at 50/60 Hz. 2.4 VA
Relay Contact Rating	Fan (3) rate at 1/4 HP @ 240 VAC Valve (2) rated at 1 AMP, 120-277 VAC
Thermostat Measurement Range	33 to 99°F (1 to 37°C)
Outdoor Air Temperature Indication Range	0 to 99°F (-18 to 37°C)
Minimum Deadband	2°F (1°C) between heating and cooling
Dimensions (H x W x D)	4.7 x 4.7 x 1.2 in. (120 x 120 x 30 mm)
Agency Compliance	FCC Part Class B

To Order

Specify the code number from the selection chart on the following page.

Modular Room Control (MRC) Series Digital Thermostat (Continued)

		3 = 24 VAC Relays 4 = 24 VAC Triacs 5 = 100-240 VAC Relays 6 = 265-277 VAC Relays		DESCRIPTION			
		0 = No Passive IR 1 = Passive IR					
		0 = No IR Transceiver 1 = IR Transceiver					
		0 = No DND/MUR 1 = DND/MUR					
		0 = No Humidity Sensor 1 = Humidity Sensor				Literature Information	
MRC	1 9 -	3	1	1	1	1	Digital Thermostat & Voltage Selection Passive IR Sensor IR Transceiver DND/MUR Humidity Sensor Part No. 24-9778-6
PLT		0					Oversize Adapter Plate 6.25" x 6.25" N/A
PIR		W					Passive IR Sensor - wall mount Part No. 24-9778-49
		C					Passive IR Sensor - ceiling mount
SIR		W					Smart IR Sensor for CELS - wall mount Part No. 24-9778-73
		C					Smart IR Sensor for CELS - ceiling mount
EYE		0					IR Transceiver Part No. 24-9778-30
EXP		1					5-Triac Expansion Board Part No. 24-9778-30
		2					6-Relay Expansion Board
		3					5-Triac/2 AO Expansion Board
		4					6-Relay/2 AO Expansion Board
LMP		0					IR5 Lamp Module LIT-1201430
		1					IR5 Wall Switch
PKG		0					Package Set DND/MUR/Door Bell Part No. 24-9778-22
MDS		0					Magnetic Door Switch - core mount LIT-1201430
		1					Magnetic Door Switch - surface mount
		2					IR5 Transmitter w/ MRC19-MDS0 (WHITE)
		3					IR5 Transmitter w/ MRC19-MDS0 (BLACK)
SFB		1					Single Floor Bridge - 110 VAC Part No. 24-9778-57
SFB		2					Single Floor Bridge - 220 VAC
DFB		1					Dual Floor Bridge - 110 VAC
DFB		2					Dual Floor Bridge - 220 VAC
DRB		1					Dual Riser Bridge - 110 VAC
DRB		2					Dual Riser Bridge - 220 VAC
MBX		0					Ethernet Router
CIS		5					CIS5 Server & Software LIT-1201492 LIT-1201522
KIT		0					MRC Demo Kit N/A
SOFTWARE							
CIT							Software License LIT-1201492
							Energy Management Software
							Property Management Interface
							Suite Linking Software
CEL							CELS Software Part No. 24-9778-73
CWT							Central Water Temperature Sensing Part No. 24-9778-103
OTB							Outdoor Air Temperature Broadcast Part No. 24-9778-81
MBM							Mini-bar Monitoring N/A
SDA							Smoke Detector Alarm Monitoring N/A
ELS							Electronic Lock Safe Monitoring N/A