

MRMS Multi-Room Monitoring Station



Description

The MRMS (Multi-Room Monitoring Station) is designed for installation in a central location, such as a nurses' station or main control room. It is designed to be flush-mounted to provide remote viewing and alarm monitoring for up to 8 rooms or critical spaces equipped with Siemens Industry's Pressure and Room Condition Monitors, such as the Model SRPM or SRCM. The built-in Auto-Discover feature will automatically search and connect to other SRPM and SRCM units through BACnet® MS/TP and import all MAC addresses, BACnet objects, naming conventions and other setup parameters. A built-in audible and visual alarm and high definition color display alerts users to room status and room condition, while allowing for easy alert of a change in room condition.

Features

- Remotely Monitor up to 8 Rooms
- Auto-Discover
- Built-in Audible and Visual Alarm ■
- Flush-Mount Design
 - Low profile, easy-care wipe down
 - Snap-in cover plate- no visible fasteners
 - Face is sealed for cleaning or wipe-down
- BACnet® MS/TP Protocol

- High Definition Color (TFT) Touchscreen Display
- Meets CE Conformance Standards
- Immediate feedback on room status
- Intuitive graphic interface
- Easy installation
 - Mounts in off-the-shelf electrical gang box.
 - Four-screw, self-leveling mount.
 - Labeled, removable termination strips for easy wiring.

Applications

- Nurses' Stations
- Main Control Rooms

Functional Overview

The MRMS can be configured to remotely monitor up to eight SRCM and/or SRPM Differential Pressure Monitors. The MRMS home screen shows the remote room label and indicates the status of the remote room, **NORMAL**, **WARNING**, **ALARM**, or **STANDBY**. Depending on the status of the room being monitor, the color changes. See Figure 1

The individual room screen shows the condition of each individual room being monitored, including pressure, temperature, humidity, or any user-defined parameter defined on the remote SRCM In the case of the SRPM, only the room pressure measurement is displayed. See Figure 2.

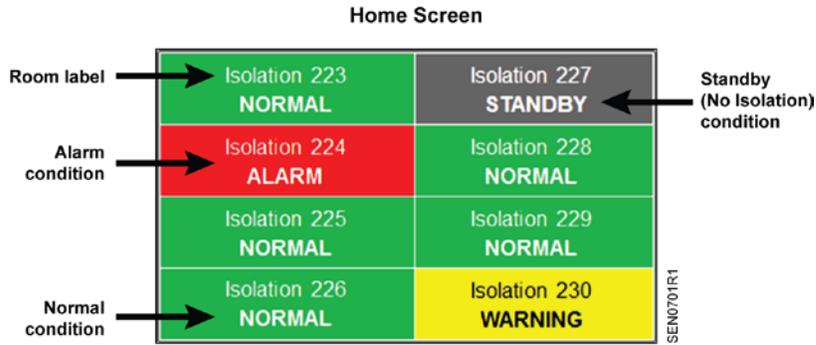


Figure 1.

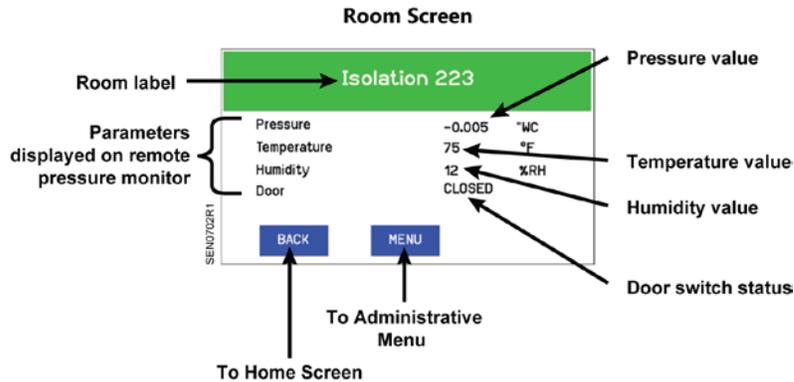


Figure 2.

Specifications

Environmental Data	Temperature	Operating*	32°F to 120°F (0°C to 50°C)
		Storage	-20°F to 160°F (-30°C to 70°C)
	Operating humidity		5% to 95% RH (non-condensing)
Physical Description	Case		Fire retardant plastic UL94 V-0
	Dimensions		5.84" H x 7.45" W x 0.38" D (14.84 cm x 18.92 cm x 0.95 cm)
	Electrical connection		Removable terminal block
	Weight (approximate)		1 lb 2 oz (482 grams)
	Mounting		Mounts to triple gang, double-deep electrical box
	Display		Touchscreen LCD 4.3" TFT, 480 x 272
Communications	BACnet		MS/TP ASC
User Interface			LCD display, 480 x 272 TFT/WQVGA module, with LED backlight and 4-wire resistive touchscreen
Certifications	CE		Conforms to European Pressure Directive
	CAN/CSA		C22.2 No. 61010-1-04 ANSI/UL 61010-1, 3rd Edition

Ordering Information

Part Number	Description
547-301A	MRMS BACnet Multi-Room Monitoring Station

Wiring

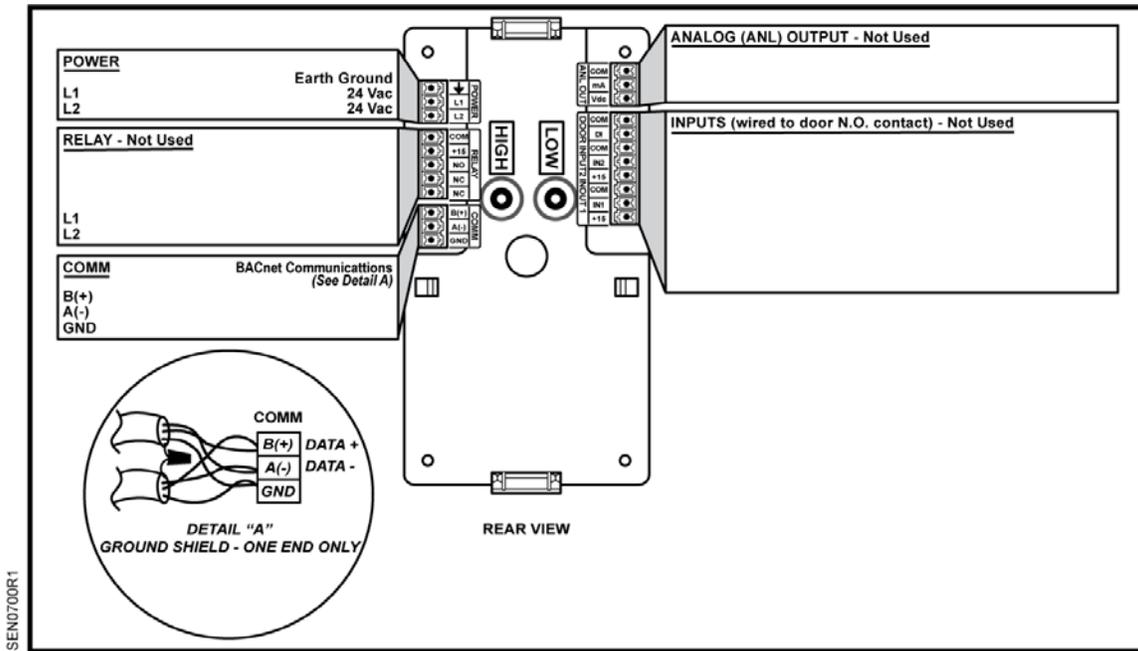


Figure 3. Rear View of the Monitor Showing Wiring Connections.

Dimensions

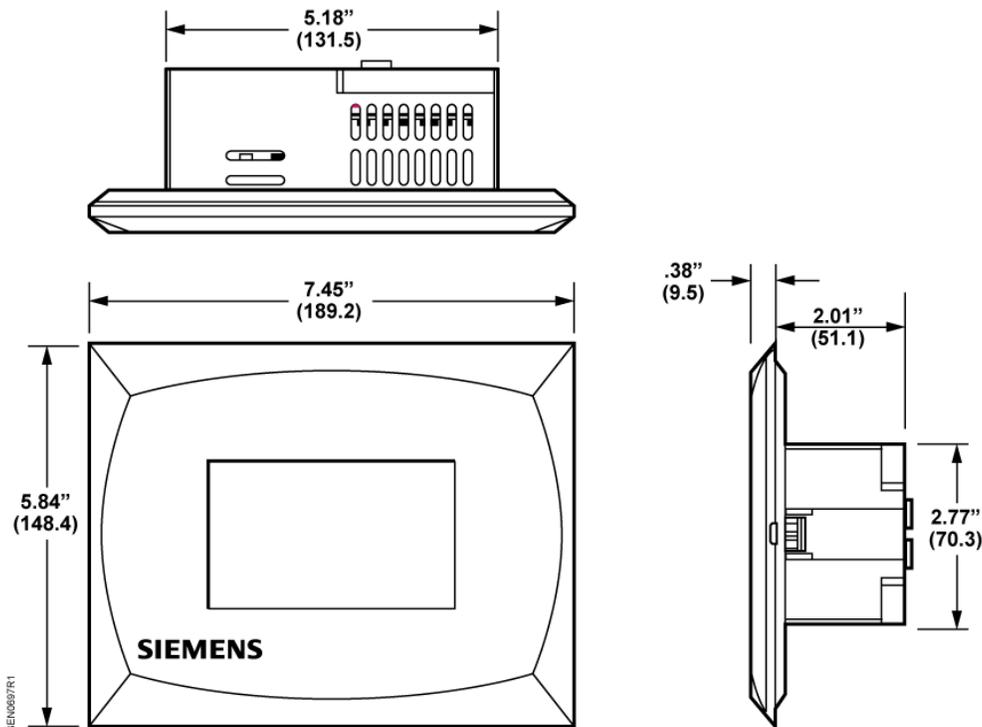


Figure 4. Dimensions in Inches (Millimeters).

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BACnet Protocol Implementation Conformance Statement

Products

Product	Model Number	Protocol Revision
Siemens MRMS Multi-Room Monitoring Station	547-301A	Revision 4 (135-2004)

Vendor Information

<p>Siemens Industry, Inc. Building Technologies Division 1000 Deerfield Parkway Buffalo Grove, IL 60089 www.buildingtechnologies.siemens.com/bt/us</p>

Product Description

<p>The MRMS (Multi-Room Monitoring Station) is designed for installation in a central location, such as a nurses' station or main control room. It is designed to be flush-mounted to provide remote viewing and alarm monitoring for up to 8 rooms or critical spaces equipped with Siemens Industry's Pressure and Room Condition Monitors, such as the Model SRPM or SRCM. The built-in Auto-Discover feature will automatically search and connect to SRPM and SRCM units through BACnet® MS/TP and import all MAC addresses, BACnet objects, naming conventions and other setup parameters. A built-in audible and visual alarm, and high definition color display alerts users to room status and room condition, while allowing for easy alert of a change in room condition.</p>
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BACnet Standardized Device Profile

Product	Device Profile
MRMS	BACnet Application Specific Controller (B-ASC)

Supported BACnet Interoperability Building Block (BIBBs)

Product	BIBB	Name
Required for B-ASC Profile		
MRMS	DS-RP-B	Data Sharing-ReadProperty-B
	DS-WP-B	Data Sharing-WriteProperty-B
	DM-DDB-B	Device Management-Dynamic Device Binding-B
	DM-DOB-B	Device Management-Dynamic Object Binding-B
	DM-DDC-B	Device Management-DeviceCommunicationControl-B

Supported BACnet Interoperability Building Block (BIBBs), Continued

Product	BIBB	Name
Not Required for B-ASC Profile but supported in MRMS		
MRMS	DS-RP-A	Data Sharing – Read Property-A
	DS-RPM-A	Data Sharing – Read Property Multiple-A
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
	DS-WP-A	Data Sharing – Write Property-A
	DS-WPM-B	Data Sharing – Write Property Multiple-B
	DM-DDB-A	Device Management – Dynamic Device Binding-A
	DM-TS-B	Device Management – Time Synchronization-B
	DB-UTC-B	Device Management – UTC Time Synchronization-B
	DM-RD-B	Device Management-ReinitializeDevice-B

Standard Object Types Supported

Product	Object Type	Creatable	Deletable
MRMS	Analog Value	No	No
	Binary Value	No	No
	Device	No	No
	Proprietary Character String Value	No	No

Data Link Layer Options

Product	Data Link and Options
MRMS	MS/TP master (Clause 9), baud rate(s): 9600 bps, 19200 bps, 38400 bps, 76800 bps

Segmentation Capability

Product	Segmentation Type	Supported	Window Size: N/A
MRMS	Can transmit segmented messages	No	
	Can receive segmented messages	No	

Device Address Binding

Product	Static Device Binding Supported
MRMS	No

Networking Options

Product	Network Options Supported	Supported
MRMS	Router, Clause 6:	No
	Annex H, BACnet Tunneling Router over IP	No
	BACnet/IP Broadcast Management Device (BBMD) Does the BMD support registrations by Foreign Devices?	No

Character Sets

Product	Character Sets Supported
MRMS	ANSI X3.4

Supported Services

Product	Application Service	Initiates Requests	Executes Requests
MRMS	ReadProperty Service	Yes	Yes
	ReadPropertyMultiple Service	Yes	Yes
	WriteProperty Service	Yes	Yes
	WritePropertyMultiple Service	No	Yes
	DeviceCommunicationControl Service	No	Yes
	ReinitializeDevice Service	No	Yes
	Timesynchronization Service	No	Yes

Supported Services, Continued

Product	Application Service	Initiates Requests	Executes Requests
MRMS	UTCTimesynchronization Service	No	Yes
	Who-Is	Yes	Yes
	Who-Has	No	Yes
	I-Am	Yes	Yes
	I-Have	Yes	No