Building Management System (BMS) Gateway

COMMERCIAL

The Rinnai BMS Gateway Remotely Monitors and Controls Rinnai Commercial Tankless Water Heaters (Applicable Models) Through the Optional Rinnai Touch Screen User Interface or a Customer-Supplied BMS.

Two models are available: Indoor and Outdoor

Indoor

Outdoor

Indoor model shown with Touch Screen User Interface.

FEATURES

The Rinnai BMS Gateway allows you to turn the connected tankless water heaters on or off, adjust water temperature, monitor tankless water heater status, and more.

ADJUST PARAMETERS:

- Turn the Connected Rinnai Tankless Water Heaters On or Off
- Adjust the Water Set Point Temperature

VIEW-ONLY PARAMETERS:

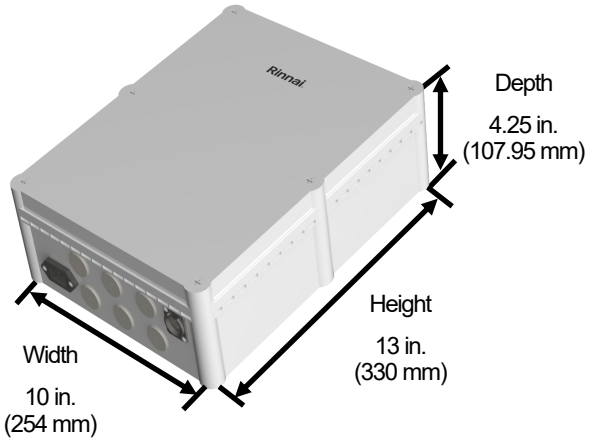
- Burner State
- Bypass Servo Position
- Cold Water Inlet Temp.
- Combustion Cycles
- Current Error
- Error Code History
- Exhaust Temp.
- Fan Current
- Fan Speed
- Freeze Protection Temp.
- Hot Water Outlet Temp.
- Operation Hours
- Water Flow Rate
- Water Flow Servo Position
- Water Heater State

BUILDING MANAGEMENT SYSTEM (BMS) GATEWAY

Installation Options	Mounts to a wall with supplied mounting hardware or to a Rinnai Tankless Rack System (TRS) free-standing rack with optional bracket.
Construction	Constructed from polycarbonate material. IP66 flame retardant enclosure.
Tankless Water Heaters	• **Pairing:** Pairs up to 6 (maximum) Rinnai Commercial Condensing Tankless Water Heaters (models below). Multiple BMS Gateways can be connected to the same network for additional tankless water heaters. • **Models:** Indoor KB C199, SENSEI® CU160, CU199, CX160 and CX199 Note: KB C199 water heaters cannot be used with both the BMS Gateway and MSB combined. • **Not Compatible With:** – SENSEI® tankless water heaters manufactured before serial number LM.BA.152112 (Note: PC Board must be replaced on units with a serial number preceding LM.BA.152112 for compatibility.)
BMS Communication Protocols	BACnet IP, BACnet MS/TP, and ModBus RTU. LonWorks connectivity is possible with a third-party BACnet to LonWorks Gateway device connected to a LonWorks network.
Network	Ethernet IP (RJ45) and RS-485 (two-wire)
Approvals	An assembly of UL listed and UL recognized components.

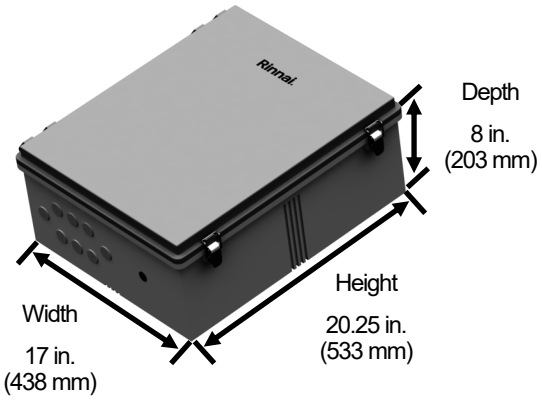
See next page for additional specifications.

INDOOR BMS GATEWAY



Product	Indoor BMS Gateway	
Installation Type	Indoor Only	
Part Number:	R-BMS-100	
Product Weight	7.5 lb (3.4 kg)	
Dimensions (w, h, d) in. (mm)	Enclosure	10 x 13 x 4.25 (254 x 330 x 107.95)
	Shipping Carton	10.25 x 13.75 x 5 (260.35 x 349.25 x 127)
Environment Temperature	Minimum 40°F (4°C) Maximum 140°F (60°C)	
Connections	• **Power:** Single-phase. 60 Hz Frequency. 120V AC. 36W max power consumption. EIC C14/NEMA 5-15p power cord (included). • **Communication:** RJ45 ethernet port, 6x serial hub connections, and RS-485 (two-wire) connection. • **Serial BMS Cable:** Connects each Rinnai Tankless Water Heater to the BMS Gateway. One cable is required for each tankless water heater connected to the BMS Gateway. Part #: R-BMS-Cable-3M (10 ft. / 3 m)	

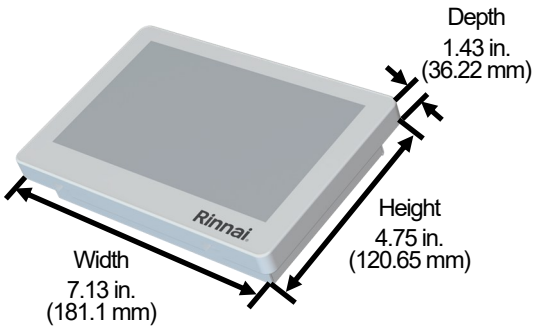
OUTDOOR BMS GATEWAY



Product	Outdoor BMS Gateway	
Installation Type	Outdoor and Indoor	
Part Number:	RBMS100E	
Product Weight	16.2 lb (7.4 kg)	
Dimensions (w, h, d) in. (mm)	Enclosure	17 x 20.25 x 8 (431.80 x 514..35 x 203.20)
	Shipping Carton	17.25 x 21 x 8.75 (438.15 x 533.40 x 222.25)
Environment Temperature	Minimum -4°F (-20°C) Maximum 140°F (60°C)	
Connections	• **Power:** Single-phase. 60 Hz Frequency. 120V AC. 690W max power consumption. NEMA 5-15p power cord (included). • **Communication:** RJ45 ethernet port, 6x serial hub connections, and RS-485 (two-wire) connection. • **Serial BMS Cable:** Connects each Rinnai Tankless Water Heater to the BMS Gateway. One cable is required for each tankless water heater connected to the BMS Gateway. Part #: R-BMS-Cable-3M (10 ft. / 3 m)	

TOUCH SCREEN USER INTERFACE

Optional Accessory



- Connects directly to BMS Gateway or with a network hub using an Ethernet cable (customer-provided)
- Pairs with up to 10 BMS Gateways on the same network
- Android Package Kit (APK) graphical user interface

Product	7 in. (178 mm) IPS Touch Screen User Interface	
Part Number	R-BMS-101	
Supported Devices	Rinnai BMS Gateway	
Installation Type	Indoor	
Installation	Mounts to wall with supplied mounting brackets	
Product Weight	1.5 lb (0.7 kg)	
Dimensions (w, h, d) in. (mm)	User Interface	7.13 x 4.75 x 1.43 (181.10 x 120.65 x 36.22)
	Shipping Carton	9 x 5 x 2 (228.6 x 127 x 50.8)
Connections	Power	Single-phase. 60 Hz Frequency. 120V AC, 12V DC power adapter (included), 24W max power consumption
	Communication	RJ45 ethernet port, USB Type-A port, HDMI Type-A port
Network Compatibility	Ethernet IP (RJ45)	

SUPPLIED WITH PURCHASE

- **BMS Gateway**
  - Wall Mounting Hardware
  - Wire Strain Reliefs (Qty 6)
  - IP67 RJ45 strain relief (Outdoor BMS Gateway Models Only)
  - 6 ft. (2 m) Three-Prong 120V AC Power Cord
  - BMS Gateway Installation and Operation Manual
- **Touch Screen User Interface (If Purchased)**
  - Wall Mount Bracket
  - 12V DC Power Adapter
- **Serial BMS Cable**
  - 10 ft. (3 m) Cable with Integrated Fuse.

    One serial communication cable is required for each tankless water heater in the BMS Gateway system.

OPTIONAL ACCESSORIES

Accessory	Part #
Touch Screen User Interface	R-BMS-101
Serial BMS Cable Connects each Rinnai Tankless Water Heater to the BMS Gateway. One cable is required for each tankless water heater connected to the BMS Gateway.	R-BMS-Cable-3 (10 ft. / 3 m)
Cascade Cable Electronically connects up to 24 Rinnai Tankless Water Heaters. This connection rotates water heater operation order to ensure equal usage among the entire system and enables all tankless water heaters connected to modulate operation and function as one hot water source.	REU-CSA-C1 (10 ft. / 3 m) REU-CSA-C2 (26 ft. / 8 m)
Rinnai Free-Standing Tankless Rack System (TRS) Designed to supply a packaged water heating solution as a fully assembled system. The TRS includes preassembled water and gas connections and manifolds under the tankless water heaters that are properly sized to maintain optimum performance. Numerous configurations are available.	Contact Dealer/ Distributor
TRS Rack Mounting Bracket (Indoor) Mounts the indoor BMS Gateway to a TRS Rack.	R-BMS-102
TRS Rack Mounting Bracket (Outdoor) Mounts the outdoor BMS Gateway to a TRS Rack.	RBMS102E

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9/2026