

HCM-05

BMS Central Controller



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Electrical

Power Supply 15V DC

Dimensions

Height 7.4" (188 mm)
Width 11.9" (303 mm)
Depth 0.98" (25 mm)

Installation Conditions

Ambient Temperature 32-122°F (0-50°C)
Ambient Humidity 5%-95% non-condensing

Control Scope

Max Indoor Units 250
Max Outdoor Units 32

Communication Ports

USB (1) USB 2.0
RJ45 LAN (2) Ports
RS485 (1) Port
20-pin Connector (1) Port

Features and Benefits

- Provides centralized control and monitoring of multiple Haier MRV VRF systems
- Powered by Niagara AX framework®
- Remotely accessible via web browser
- Operation status control and monitoring
- Operational and error history logging
- Supports 12 points of indoor unit control and monitoring via BACnet IP
- Allows for sorting devices into a hierarchical structure of Buildings - Floors - Rooms for simplifying control of large buildings or campuses
- User Configurations support three levels of user (Sys Admin, Super User, and Building Manager) with varying levels of access permissions and password protection
- Group up to 40 indoor units together
- Optional indoor-unit-level or user-level electricity consumption calculation option (requires IGU-02)
- Save and export unit health history and electricity consumption history in 10, 15, 30, 45, or 60 minute intervals
- Mount using standard DIN rail installation mounting or screw-type mounting tabs

Optional Accessories

IGU-02 Adapter for tenant billing (one per MRV system)

BACnet Configuration

Assuming the gateway address of an indoor unit is XX, and address of indoor unit is YY, and index of indoor unit is ZZ, then the BACnet points of that indoor unit exported by the system is:

BACnet point name	Source data point	BACnet point type	BACnet instance number
Indoor_OnOff_BO_XX_YY	OnStatus	BO	10000+ZZ
Indoor_OnOff_BI_XX_YY	OnStatus	BI	20000+ZZ
Indoor_WorkMode_MSO_XX_YY	WorkMode	MSO	50000+ZZ*3
Indoor_WorkMode_MSI_XX_YY	WorkMode	MSI	30000+ZZ*3
Indoor_WindSpeed_MSO_XX_YY	WindSpeed	MSO	50000+ZZ*3+1
Indoor_WindSpeed_MSI_XX_YY	WindSpeed	MSI	60000+ZZ*3+1
Indoor_ControlMode_MSO_XX_YY	ControlMode	MSO	50000+ZZ*3+2
Indoor_ControlMode_MSI_XX_YY	ControlMode	MSI	60000+ZZ*3+2
Indoor_SetPoint_AO_XX_YY	SetPoint	AO	30000+ZZ
Indoor_SetPoint_AI_XX_YY	SetPoint	AI	40000+ZZ*2
Indoor_RoomTemperature_AI_XX_YY	RoomTemp	AI	40000+ZZ*2+1
Indoor_ErrorCode_AI_XX_YY	FaultCode	AV	70000+ZZ