

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

PREMTBVC1**MultiSITE CRC1+ Remote Controller****Electrical:**

Power Supply 12VDC power from indoor unit

Surrounding Conditions:

Temperature	
Operating	32-122 °F
Storage	-22-122 °F
Humidity	
Operating	5-95% RH (non-condensing)
Storage	0-95% RH (non-condensing)

Features:

- Customizable color digital touch screen interface with Multilanguage support
- BACnet® MS/TP
- ZigBee Pro® Wireless network
- On-board Motion (PIR) and Humidity Sensor
- Role based configuration (password protected)
- Function code settings
- Function Code Search Tool
- Date and Time Display
- Room temperature display
- Humidity Display
- Operation - On/Off
- Mode - Auto/Cool/Dry/Heat/Fan Only
- Occupied cooling and heating temperature setpoints
- Unoccupied cooling and heating temperature setpoints
- 7 day scheduling with mode
- Fan speed - Auto/Low/Med/High/Power
- Discharge vanes - Auto/Swing/Fixed
- Static pressure installer setting

Optional Accessories (sold separately):

- ☐ PZCWRCG3 - Group Control Cable Kit
- ☐ ZVRCZPWC1 - ZigBee Pro® Wireless Module³
- ☐ ZVRCZDWS1 - Wireless Door Window Switch³
- ☐ ZVRCZCOC1 - Wireless Ceiling Mounted Occupancy Sensor³
- ☐ ZVRCZWOC1 - Wireless Wall Mounted Occupancy Sensor³
- ☐ PZCWRC1 - Extension Cable (for IDUs without terminal blocks)

Notes:

1. Available functions/features may differ based on connected system.
2. Communication cable can be extended to a maximum of 164 feet.
3. Up to 10 door/window switches and ceiling/wall mounted sensors can be connected to the MultiSITE CRC1+ Remote Controller.
4. Must follow installation instructions in the applicable LG installation manual.

Connectivity:

LG Communications 1 Channel/RS-485 V-Net
 BACnet® MS/TP (default model)
 ZigBee Pro® wireless mesh network (P) (optional)

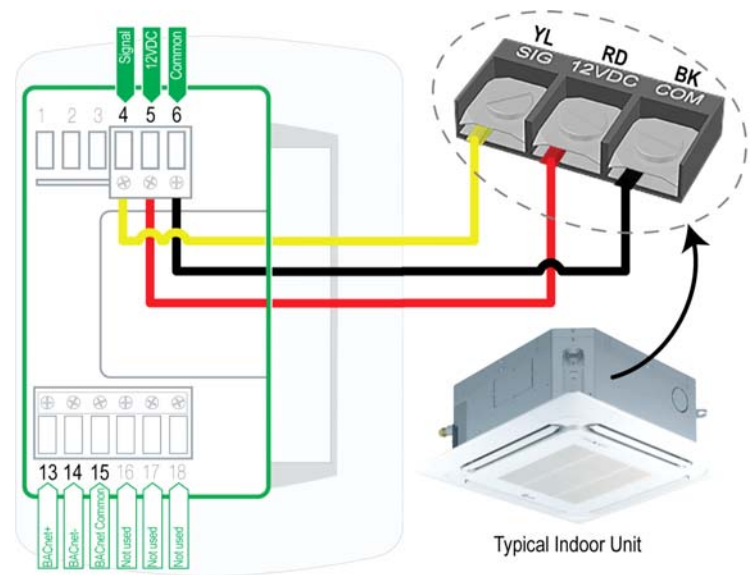
Communications Cabling Specifications (V-Net):

Type 3 conductor, stranded, twisted, unshielded
 Size AWG 22-3
 Length² up to 164 ft

AWG - American Wire Gauge

Unit Data:

Dimensions 4.72" H x 3.39" W x 1.06" D
 Maximum Number of Indoor Units (per controller) 16



TERMINAL	DESCRIPTION
4 (S)	Tx - Rx Communication
5 (12V)	12 Volts DC
6 (G)	Common
13	BACnet +
14	BACnet -
15	BACnet Common

Note: Terminals 1, 2, 3, 16, 17, and 18 are unused.



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Job Name/Location:

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MultiSITE CRC1+ Remote Controller

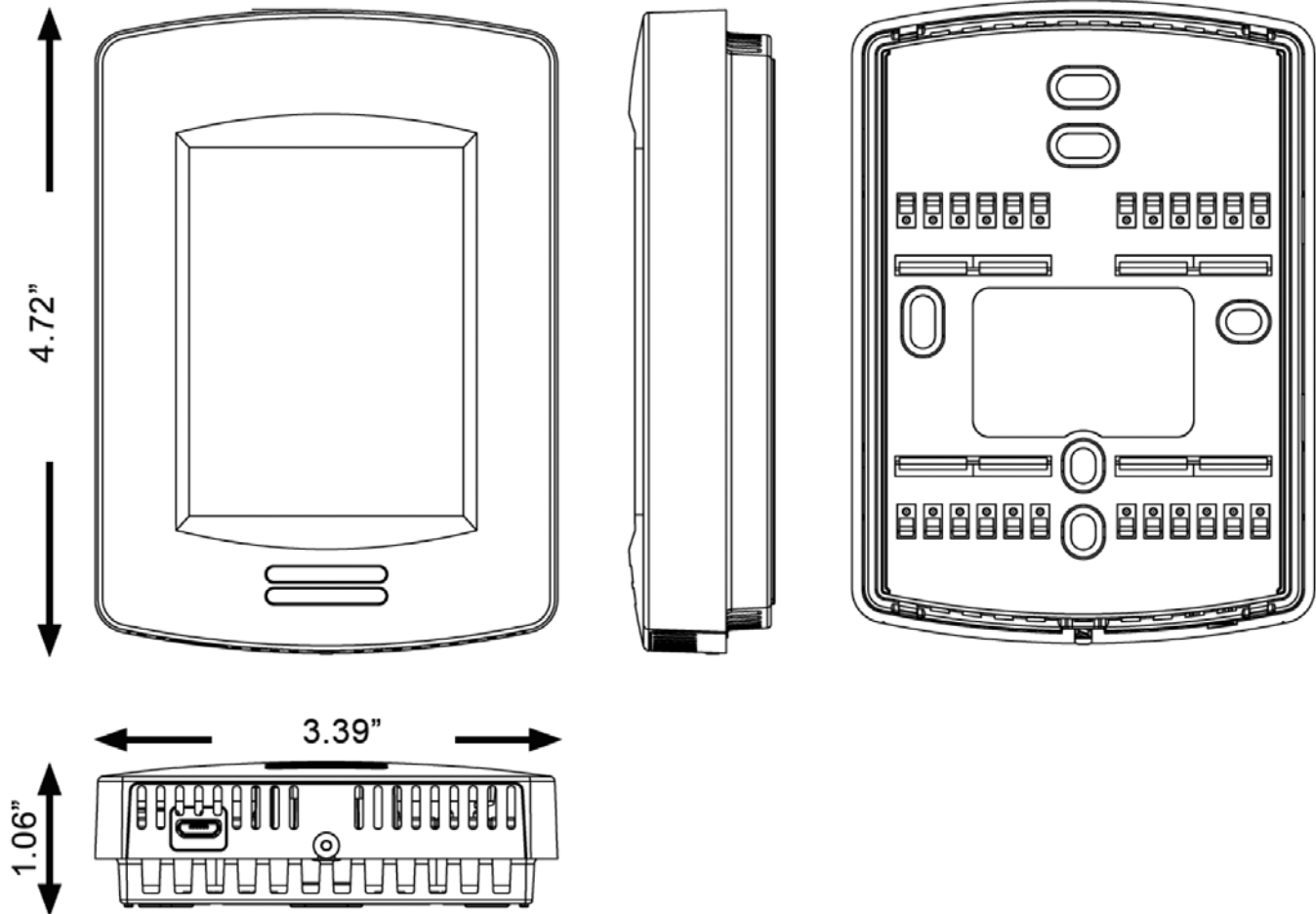


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Dimensions: 4.72"H x 3.39"W x 1.06"D



PREMTBVC1

MultiSITE CRC1+ Remote Controller



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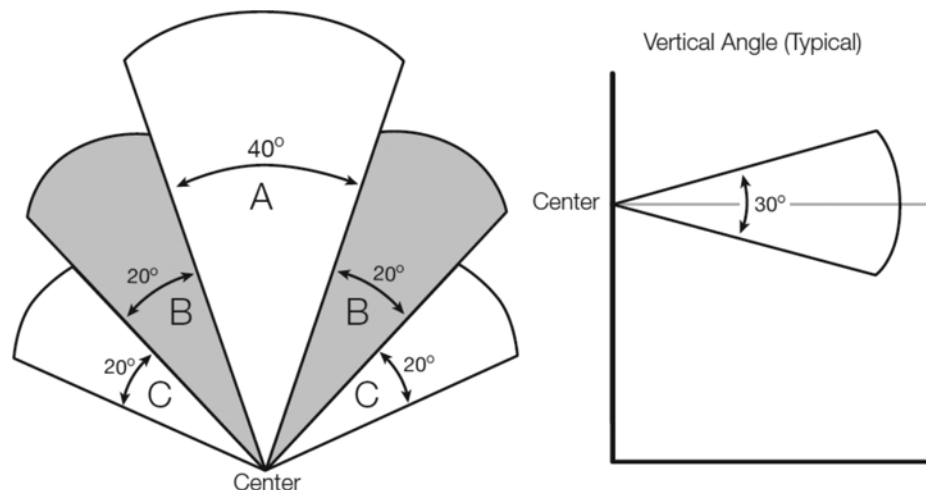
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Horizontal Angles (Typical)
Transverse motion: 4-5 ft/s / 1.5 m/s

Recommended installation height for PIR sensor:
4 - 5 ft. / 1.2-1.5 m

Sensor Ranges
A = 20 ft. / 6.1 m
B = 14 ft. / 4.3 m
C = 11 ft. / 3.4 m



PREMTBVC1

MultiSITE CRC1+ Remote Controller



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MultiSITE Remote Controller BACnet® **MONITOR** Points

√	Object Name	Object Type	Monitor Points Description
	FilterAlarm_M	BI	Filter Alarm Status
	RoomTemp	AV	Room Temperature
	RoomHumidity	AV	Room Humidity (Only on model PREMTBVC1)
	ODUSilentMode_M	BI	ODU Silent Mode Status
	SmartLoadCtrl_M	BI	Smart Load Control Status
	OccStatus_M	BI	Occupancy Status
	MsgAddressLock_M	BV	Central Control Address Lock Status
	ZB_Zone1IEEEaddrs_M	AI	Zigbee Zone1 Address
	ZB_Zone2IEEEaddrs_M	AI	Zigbee Zone2 Address
	ZB_Zone3IEEEaddrs_M	AI	Zigbee Zone3 Address
	ZB_Zone4IEEEaddrs_M	AI	Zigbee Zone4 Address
	ZB_Zone5IEEEaddrs_M	AI	Zigbee Zone5 Address
	ZB_Zone6IEEEaddrs_M	AI	Zigbee Zone6 Address
	ZB_Zone7IEEEaddrs_M	AI	Zigbee Zone7 Address
	ZB_Zone8IEEEaddrs_M	AI	Zigbee Zone8 Address
	ZB_Zone9IEEEaddrs_M	AI	Zigbee Zone9 Address
	ZB_Zone10IEEEaddrs_M	AI	Zigbee Zone10 Address
	CurrentErrorCode_M	AI	Current Error Code
	PreviousErrorCode_M	AV	Previous Error Code
	ErrorCode3_M	AV	Error Code3
	ErrorCode4_M	AV	Error Code4
	ErrorCode5_M	AV	Error Code5
	ErrorCode6_M	AV	Error Code6
	ErrorCode7_M	AV	Error Code7
	ErrorCode8_M	AV	Error Code8
	ErrorCode9_M	AV	Error Code9
	ErrorCode10_M	AV	Error Code10
	OldestErrorCode_M	AI	Oldest Error Code
	FilterRemainTime_M	AI	Filter Time Remaining (Hours)
	PipeInTemp_M	AI	Pipe In Temperature
	PipeOutTemp_M	AI	Pipe Out Temperature
	MiddlePipeTemp_M	AI	Middle Pipe Temperature
	ODUgivenAddrs_M	AI	Assigned address by Outdoor Unit
	ZB_NetworkStatus_M	MI	Zigbee Network Status
	ZB_LowBattAlarm	BV	Global Zigbee Battery Sensor Alarm

*Monitor points continued on next page***Notes:**

Available functions/features may differ based on the connected system.

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MultiSITE Remote Controller BACnet® **MONITOR** Points – continued

√	Object Name	Object Type	Monitor Points Description
	ZB_Zone1Status_M	MI	Zigbee Zone1 Status
	ZB_Zone2Status_M	MI	Zigbee Zone2 Status
	ZB_Zone3Status_M	MI	Zigbee Zone3 Status
	ZB_Zone4Status_M	MI	Zigbee Zone4 Status
	ZB_Zone5Status_M	MI	Zigbee Zone5 Status
	ZB_Zone6Status_M	MI	Zigbee Zone6 Status
	ZB_Zone7Status_M	MI	Zigbee Zone7 Status
	ZB_Zone8Status_M	MI	Zigbee Zone8 Status
	ZB_Zone9Status_M	MI	Zigbee Zone9 Status
	ZB_Zone10Status_M	MI	Zigbee Zone10 Status
	ZB_Zone1BattStatus_M	MI	Zigbee Zone1 Battery Status
	ZB_Zone2BattStatus_M	MI	Zigbee Zone2 Battery Status
	ZB_Zone3BattStatus_M	MI	Zigbee Zone3 Battery Status
	ZB_Zone4BattStatus_M	MI	Zigbee Zone4 Battery Status
	ZB_Zone5BattStatus_M	MI	Zigbee Zone5 Battery Status
	ZB_Zone6BattStatus_M	MI	Zigbee Zone6 Battery Status
	ZB_Zone7BattStatus_M	MI	Zigbee Zone7 Battery Status
	ZB_Zone8BattStatus_M	MI	Zigbee Zone8 Battery Status
	ZB_Zone9BattStatus_M	MI	Zigbee Zone9 Battery Status
	ZB_Zone10BattStatus_M	MI	Zigbee Zone10 Battery Status
	ZB_Zone1PairingStatus_M	MI	Zigbee Zone1 Pairing Status
	ZB_Zone2PairingStatus_M	MI	Zigbee Zone2 Pairing Status
	ZB_Zone3PairingStatus_M	MI	Zigbee Zone3 Pairing Status
	ZB_Zone4PairingStatus_M	MI	Zigbee Zone4 Pairing Status
	ZB_Zone5PairingStatus_M	MI	Zigbee Zone5 Pairing Status
	ZB_Zone6PairingStatus_M	MI	Zigbee Zone6 Pairing Status
	ZB_Zone7PairingStatus_M	MI	Zigbee Zone7 Pairing Status
	ZB_Zone8PairingStatus_M	MI	Zigbee Zone8 Pairing Status
	ZB_Zone9PairingStatus_M	MI	Zigbee Zone9 Pairing Status
	ZB_Zone10PairingStatus_M	MI	Zigbee Zone10 Pairing Status
	PipeTempCnfg_M	MI	Pipe Temperature Configuration Status (Supported or Unsupported)
	ODUstatus_M	MI	Outdoor Unit Status
	ODUType_M	MI	Outdoor Type
	IDUType_M	MI	Indoor Unit Type
	MsgOverrideActive	BV	Override Status

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MultiSITE Remote Controller BACnet® **CONTROL** Points

✓	Object Name	Object Type	Control Points Description
	BACnetComAddr	AV	BACnet Communication Address
	BACnetNetworkUnits	MV	SI or Imperial Setting
	TempUnits	MV	Temperature Units Setting
	DisplayTimeFormat	MV	Time Format Setting
	DisplayColor	MV	Color Display Setting
	DisplayUseStandbyScreen	MV	Standby Screen Setting
	DisplayLanguage	MV	Language Display Setting
	DisplayLowBacklight	AV	Display Backlight Setting (Low)
	DisplayShowOnOff	MV	Show or Hide On/Off Setting
	DisplayShowMode	MV	Show or Hide Mode Setting
	DisplayShowSchedule	MV	Show or Hide Schedule Setting
	DisplayShowMore	MV	Show or Hide More Setting
	DisplayShowSetTemp	MV	Show or Hide Set Temperature Setting
	DisplayShowSpaceTemp	MV	Show or Hide Space Temperature Setting
	DisplayShowFanSpeed	MV	Show or Hide Fan Speed Setting
	DisplayShowHumidity	MV	Show or Hide Humidity Setting (Only on model PREMTBVC1)
	ForceHighBacklight	BV	Force Backlight
	MsgShortScreenMsgTxt	CharString Value	Location Message (Displays message at bottom of screen)
	MsgLongScreenMsgTxt	CharString Value	Description Message (Displays message on main screen)
	FilterAlarmRelease	BV	Filter Alarm Reset
	ConfigPassword	AV	Configuration Password (Password protects Installer Settings)
	UserPassword	AV	User Password (Password protects all settings)
	IDUonOff	MV	Indoor Unit On/Off Setting
	SystemMode	MV	System Mode Setting
	FanSpeed	MV	Fan Speed Setting
	TempSenseLoc	MV	Temperature Sensing Location Setting
	CoolingSP	AV	Cooling Setpoint Setting
	HeatingSP	AV	Heating Setpoint Setting
	CoolingSPMax	AV	Cooling Maximum Setpoint Setting
	CoolingSPMin	AV	Cooling Minimum Setpoint Setting
	HeatingSPMax	AV	Heating Maximum Setpoint Setting
	HeatingSPMin	AV	Heating Minimum Setpoint Setting
	MinDeadband	AV	Minumum Deadband Setting

*Control points continued on next page***Notes:**

Available functions/features may differ based on the connected system.

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MultiSITE Remote Controller BACnet® **CONTROL** Points – continued

√	Object Name	Object Type	Control Points Description
	SingleSP	AV	Single Setpoint Setting
	SingleSetpointMax	AV	Single Setpoint Maximum Setting
	SingleSetpointMin	AV	Single Setpoint Minimum Setting
	AirflowUpDown	MV	Airflow Up/Down Setting
	AirflowLeftRight	MV	Airflow Left/Right Setting
	AirflowCircular	MV	Airflow Circular Setting
	SingleDualSP	MV	Single or Dual Setpoint Setting
	SingleSPdeadband	MV	Single Setpoint Deadband Setting
	CntrlrOccSensor	MV	On-board Occupancy Sensor Enable/Disable (Only on model PREMTBVC1)
	ControllerMinOccOnTime	MV	Minumum Occupancy Time Delay
	MsgSetbackActive	BV	Setback Enable/Disable (Also displays message if setback is set to enable)
	SetbackMode	MV	Setback Mode Setting
	SetbackCoolingSP	AV	Cooling Setback Setpoint Setting
	SetbackHeatingSP	AV	Heating Setback Setpoint Setting
	SetbackFanSpeed	MV	Setback Fan Speed Setting
	OverrideCoolingSP	AV	Cooling Override Setpoint Setting
	OverrideHeatingSP	AV	Heating Override Setpoint Setting
	OverrideMode	MV	Mode Override Setting
	OverrideFanSpeed	MV	Fan Speed Override Setting
	OverrideTimer	MV	Timer Override Setting
	ZB_Zone1SnsrType	MV	Zigbee Zone1 Sensor Type Setting
	ZB_Zone2SnsrType	MV	Zigbee Zone2 Sensor Type Setting
	ZB_Zone3SnsrType	MV	Zigbee Zone3 Sensor Type Setting
	ZB_Zone4SnsrType	MV	Zigbee Zone4 Sensor Type Setting
	ZB_Zone5SnsrType	MV	Zigbee Zone5 Sensor Type Setting
	ZB_Zone6SnsrType	MV	Zigbee Zone6 Sensor Type Setting
	ZB_Zone7SnsrType	MV	Zigbee Zone7 Sensor Type Setting
	ZB_Zone8SnsrType	MV	Zigbee Zone8 Sensor Type Setting
	ZB_Zone9SnsrType	MV	Zigbee Zone9 Sensor Type Setting
	ZB_Zone10SnsrType	MV	Zigbee Zone10 Sensor Type Setting
	VTR815xAxxxx-250	Enumerated Value	Reserved/Do Not Use
	DisplayLongScreenMsg	BV	Reserved/Do Not Use

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