Job Name/Location: **Tag #:**

Date: For: ☐ File ☐ Resubmit

PO No.: ☐ Approval ☐ Other _____

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)

PBACNBTR1A
LG MultiSITE™ VM3

LG Life's Good

Electrical:

Power Supply	24VAC/24VDC/Optional wall power adapter
Power Consumption	24 VA

40 VA transformer recommended.

Surrounding Conditions:

Operating Temperature	-4 - 140 °F
Storage Temperature	-40 - 185 °F
Humidity	5-95% (non-condensing)
Shipping and Vibration	ASTM D4169, Assurance Level II
MTBF	10+ years

Unit Data:

Base Hardware	JACE 8000
Dimensions	7.05" W x 4.33" H x 2.40" D
Number of LG Devices	128 (Expandable to 256)
Number of Third Party Devices	5 (Expandable)
USB Type A connector	
Removeable micro-SD card with 4GB flash total storage/2 GB user storage	
Two (2) isolated V-Net communication ports	
Two (2) 10/100 MB Ethernet ports	

Standard Features

- Integrates LG Multi V™ systems, Multi F systems, and select LG single zone systems with any building management system
- Operates with Niagara 4 for optimum performance
  - o System view from any browser or device
  - o Easier Integration Platform
  - o Enhanced Security
- Includes the LG Graphical User Interface
  - o Operation – On/Off
  - o Mode – Auto/Cool/Dry/Heat/Fan Only
  - o Fan Speed – Auto/Low/Med/High/Power
  - o Louver Swing
  - o Two Setpoint Auto-Changeover
  - o Two Setpoint Setback
  - o Speed, Controller Lock, and Louver Swing
  - o Temperature Setpoint Range Limit
  - o Remote Controller Lock (All, Setpoint, Mode, Fan Speed)
- Enterprise-scale control system
- On-board wireless capability

Standard Network Protocols:

BACnet®	LGACP®	SNMP
LonWorks®	MQTT®	
Modbus®	OPC UA®	
Fox®	oBIX®	

Note: Please reference Startup Guide for complete list of supported protocols.

Connectivity:

- LG V-Net
- 10/100 Ethernet
- Wireless Connectivity

Wi-Fi:

- IEEE802.11a/b/g/n
- IEEE802.11n HT20 @ 2.4 GHz
- IEEE802.11n HT20/HT40 @ 5 GHz
- Configurable radio (Off, WAP, or Client) WPAPSK/WPA2PSK supported

Communications Cabling Specifications (V-Net):

Type	2-conductor, stranded, shielded copper cable/ PVC or vinyl jacket
Size	AWG 18 x 2
Maximum Length	3,280 ft (end to end)

AWG - American Wire Gauge

Niagara Compatibility Statement (NiCS)

Common Name	MultiSITE VM3
Property	
Station Compatibility In	All
Station Compatibility Out	All
Tool Compatibility In	All
Tool Compatibility Out	All

Optional Accessories (sold separately):

- ☐ LON Module - ZHWLONWK0
- MultiSITE Supervisor:
  - ☐ ZSWSUPN00A - Supervisor 100 Niagara networks + initial SMA 1yr
  - ☐ ZSWSUPN03A - Supervisor 3 Niagara networks + Initial SMA 1yr
  - ☐ ZSWSUPN10A - Supervisor 10 Niagara networks + Initial SMA 1yr
- ☐ Adder pack for up to 128 additional LG VRF units for a total of 256 LG VRF Units - ZSWADD128
- ☐ 10 Device Upgrade - ZSWDVUP10
- ☐ 25 Device Upgrade - ZSWDVUP25
- ☐ Wall Power Adapter - ZHWPWADTR
- ☐ Remote I/O Module 16 Point - ZHWREMIO16
- ☐ Remote I/O Module 34 Point - ZHWREMIO34

Notes:

Must follow installation instructions in the applicable LG installation manual.
Available functions/features may differ based on the connected system.

LonWorks® is a trademark of Echelon

ASHRAE BACnet® Powered by niagara FRAMEWORK®

For continual product development, LG reserves the right to change specifications without notice. BACnet® is a trademark of ASHRAE.

PBACNBTR1A
LG MultiSITE™ VM3

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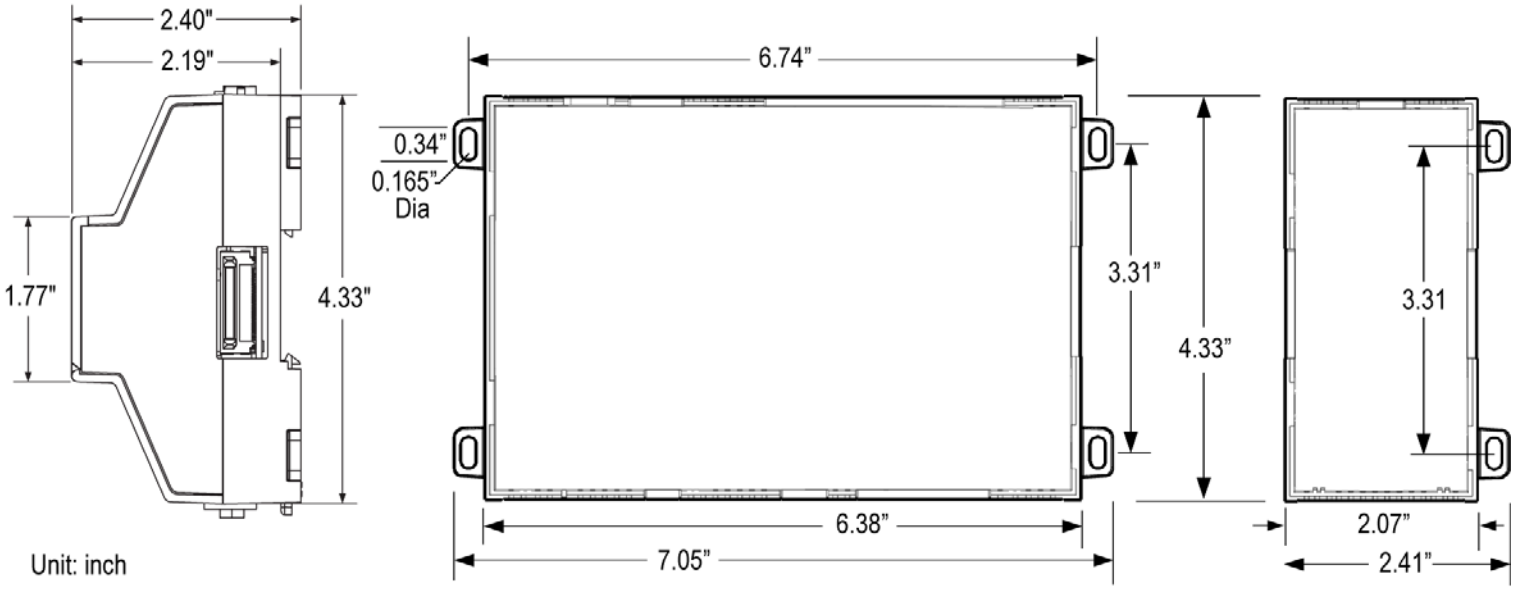
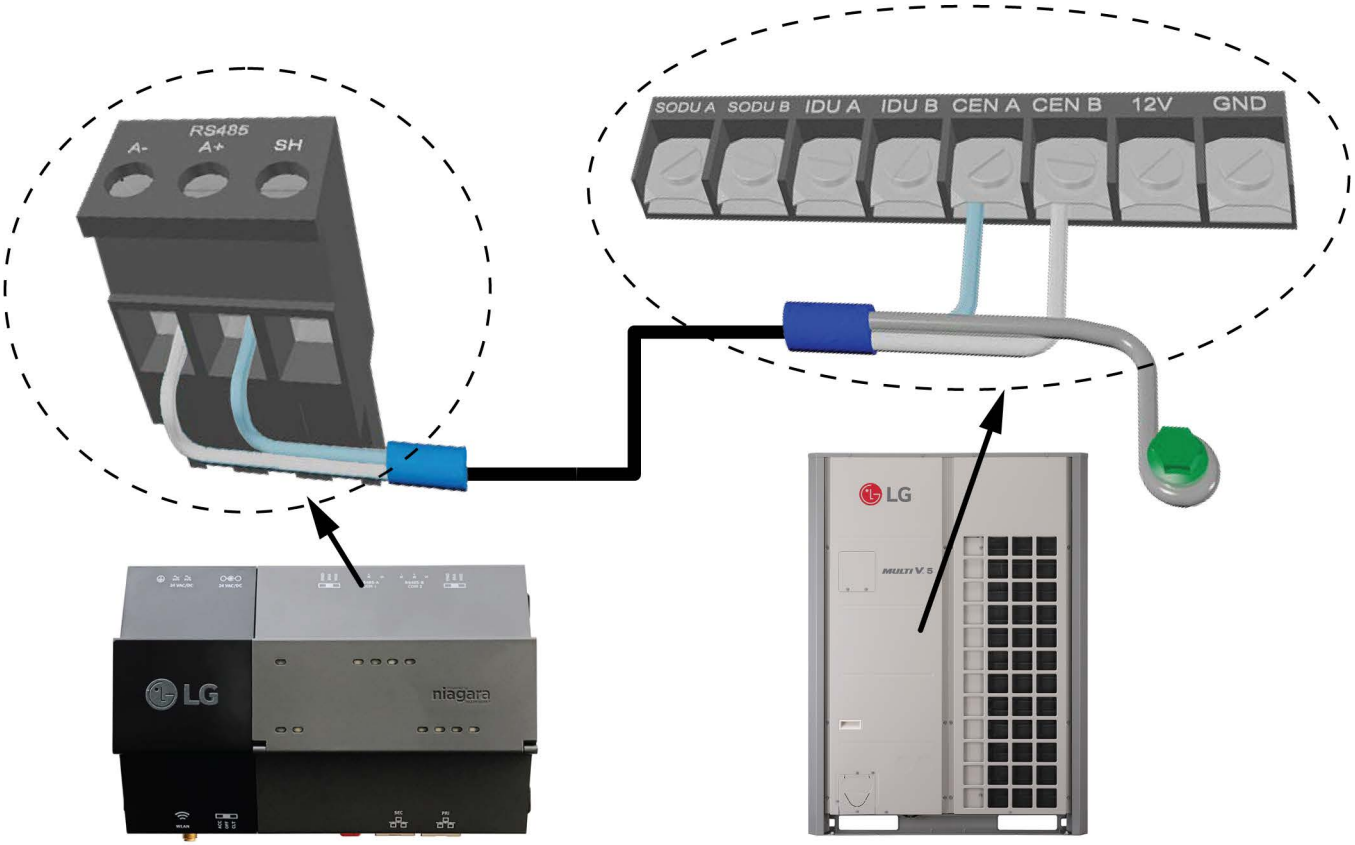


Compatible with (DIN43880) enclosures
Suitable for mounting to a panel or to an EN50022 standard 35mm rail



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

ODU Master Points

Name	Niagara Points
ErrorCode(M)	Numeric Point
RefrigentType(M)	Enum Point
ODUTypeUpperDigit(M)	Enum Point
ODUTypeLowerDigit(M)	Enum Point
SlaveUnitQuantity(M)	Numeric Point
UnitHasError(M)	Numeric Point
OduOperationMode(M)	Enum Point
Inv1CompFrequency(M)	Numeric Point
Inv2CompFrequency(M)	Numeric Point
CurrentFan1Frequency(M)	Numeric Point
CurrentFan2Frequency(M)	Numeric Point
OutsideTemp(M)	Numeric Point
CurrentHighPressure(M)	Numeric Point
CurrentLowPressure(M)	Numeric Point
SuctionTemp(M)	Numeric Point
Inverter1DischargeTemp(M)	Numeric Point
Inverter2DischargeTemp(M)	Numeric Point
Std1DischargeTemp(M)	Numeric Point
Std2DischargeTemp(M)	Numeric Point
LiquidPipeTemp(M)	Numeric Point
HeatExchangeTemp(M)	Numeric Point
HeatExchangeUpperTemp(M)	Numeric Point
HeatExchangeLowerTemp(M)	Numeric Point

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

ODU Master Points - continued

Name	Niagara Points
SubCoolPipeInTemp(M)	Numeric Point
SubCoolPipeOutTemp(M)	Numeric Point
Main1EevPulse(M)	Numeric Point
Main2EevPulse(M)	Numeric Point
SubEevPulse(M)	Numeric Point
SubCoolEevPulse(M)	Numeric Point
OilEqEev(M)	Numeric Point
ViEev1(M) [Vapor Injection]	Numeric Point
ViEev2(M) [Vapor Injection]	Numeric Point
ConnectedIduNumber(M)	Numeric Point
OduCapacity(M)	Numeric Point
ControlStep(M)	Numeric Point
Inv2Capacity(M)	Enum Point
Inv1Heater(M)	Boolean Point
Inv2Heater(M)	Boolean Point
Inv1OilSensor(M)	Boolean Point
Inv2OilSensor(M)	Boolean Point
CompressorQuantity(M)	Numeric Point
Inv1Backup(M)	Boolean Point
Inv2Backup(M)	Boolean Point
Inv1Capacity(M)	Enum Point
Ddc(M)	Boolean Point

IDU Points

Name	Niagara Points
ErrorCode(M)	Boolean Point
LockSetting(M)	Boolean Point
LockSetting(C)	Boolean Point
OperationSetting(M)	Boolean Point
OperationSetting(C)	Enum Point
FilterSign(M)	Enum Point
FanSpeedSetting(M)	Boolean Point
FanSpeedSetting(C)	Boolean Point
SwingSetting(M)	Enum Point
SwingSetting(C)	Enum Point
ModeSetting(M)	Numeric Point
ModeSetting(C)	Numeric Point
SetPointSetting(M)	Numeric Point
SetPointSetting(C)	Numeric Point
RoomTemperature(M)	Boolean Point
PipeInTemperature(M)	Boolean Point

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

IDU Points - continued

Name	Niagara Points
PipeOutTemperature(M)	Numeric Point
IduAddressLockSetting(M)	Boolean Point
IduAddressLockSetting(C)	Boolean Point
ModeLockSetting(M)	Boolean Point
ModeLockSetting(C)	Boolean Point
FanLockSetting(M)	Boolean Point
FanLockSetting(C)	Boolean Point
TemperatureLockStatus(M)	Boolean Point
TemperatureLockStatus(C)	Boolean Point
LowerSetTemperatureRangeSetting(M)	Numeric Point
LowerSetTemperatureRangeSetting(C)	Numeric Point
UpperSetTemperatureRangeSetting(M)	Numeric Point
UpperSetTemperatureRangeSetting(C)	Numeric Point
Pt2SetAutoSupportSetting(M)	Boolean Point
CoolTemperatureUpperRangeSetting(M)	Numeric Point
CoolTemperatureUpperRangeSetting(C)	Numeric Point
CoolTemperatureLowerRangeSetting(M)	Numeric Point
CoolTemperatureLowerRangeSetting(C)	Numeric Point
HeatTemperatureUpperRangeSetting(M)	Numeric Point
HeatTemperatureUpperRangeSetting(C)	Numeric Point
HeatTemperatureLowerRangeSetting(M)	Numeric Point
HeatTemperatureLowerRangeSetting(C)	Numeric Point
CoolSetTemperatureSetting(M)	Numeric Point
CoolSetTemperatureSetting(C)	Numeric Point
CoolSetTemperatureSettingUnocc(C)	Numeric Point
HeatSetTemperatureSetting(M)	Numeric Point
HeatSetTemperatureSetting(C)	Numeric Point
HeatSetTemperatureSettingUnocc(C)	Numeric Point
OccupancyModeSetting(M)	Boolean Point
OccupancyModeSetting(C)	Boolean Point
OverrideMode(M)	Boolean Point
OccupancySensorInstalled(M)	Boolean Point
OccupancySensorStatus(M)	Boolean Point
Pt2SetFunctionStatusSetting(M)	Boolean Point
ThermoStatus(M)	Boolean Point
Deadband (M)	Numeric Point
AccumulatedPowerofIDU(M)	Numeric Point
CurrentPowerofIDU(M)	Numeric Point

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

ERV Points

Name	Niagara Points
ErrorCode(M)	Numeric Point
HeaterSetting(M)	Boolean Point
HeaterSetting(C)	Boolean Point
UserMode(M)	Enum Point
UserMode(C)	Enum Point
LockSetting(M)	Boolean Point
LockSetting(C)	Boolean Point
OperationSetting(M)	Boolean Point
OperationSetting(C)	Boolean Point
FilterSign(M)	Boolean Point
FanSpeedSetting(M)	Enum Point
FanSpeedSetting(C)	Enum Point
OperationModeSetting(M)	Enum Point
OperationModeSetting(C)	Enum Point
RoomTemperature(M)	Numeric Point

AWHP Points

Name	Niagara Points
ErrorCode(M)	Numeric Point
OperationSetting(M)	Boolean Point
OperationSetting(C)	Boolean Point
Lock(M)	Boolean Point
Lock(C)	Boolean Point
OperationModeSetting(M)	Enum Point
OperationModeSetting(C)	Enum Point
AirWaterSetPointSetting(M)	Numeric Point
AirWaterSetPointSetting(C)	Numeric Point
ControlModeSetting(M)	Boolean Point
HotWaterOperationStatus(M)	Boolean Point
HotWaterOperationStatus(C)	Boolean Point
HotWaterSetPointSetting(M)	Numeric Point
HotWaterSetPointSetting(C)	Numeric Point
RoomTemperature(M)	Numeric Point
WaterInletTemperature(M)	Numeric Point
WaterOutletTemperature(M)	Numeric Point
HotWaterTankTemperature(M)	Numeric Point
SolarSourceTemperature(M)	Numeric Point
AccumulatedPowerofIDU(M)	Numeric Point
CurrentPowerofIDU(M)	Numeric Point

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