

Job Name/Location:

Tag #:

Date:	For: ☐ File ☐ Resubmit
PO No.:	☐ Approval ☐ Other _____
Architect:	GC:
Engr:	Mech:
Rep:	
(Company)	(Project Manager)

PBACNBTR0A

LG MultiSITE™ Communications Manager



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:

Dimensions	7.05" W x 4.33" H x 2.40" D
Maximum Number of Devices	128
Maximum Number of Outdoor Units	16 per V-net
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 All LG Multi V™ systems, Multi F systems, and select LG single zone systems with third party building management systems
- Includes the LG Graphical User Interface
 - o Indoor unit control/monitoring by groups/indoor units
 - o Operation – On/Off
 - o Mode – Auto/Cool/Dry/Heat/Fan Only
 - o Fan Speed – Auto/Low/Med/High/Power
 - o Two Setpoint Auto-Changeover
 - o Occupancy control
 - o Speed, Controller Lock, and Louver Swing
 - o Temperature Setpoint Range Limit
 - o Remote Controller Lock (All, Setpoint, Mode, Fan Speed)
 - o Power Distribution Indicator (PDI)

Supported Network Protocols:

BACnet®
LonWorks®
Fox®

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

Optional Accessories (sold separately):

- ☐ LON Module - ZHWLONWK0
- ☐ Wall Power Adapter - ZHWPWADTR



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Notes:

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

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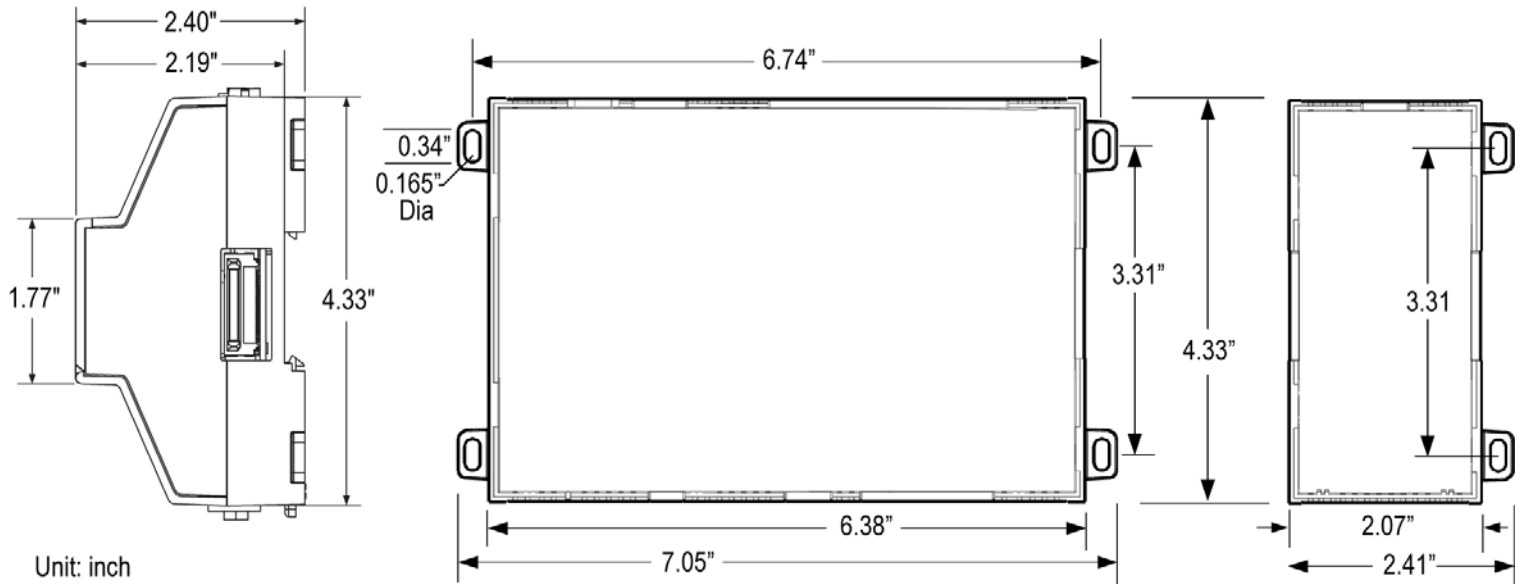
LG MultiSITE™ Communications Manager



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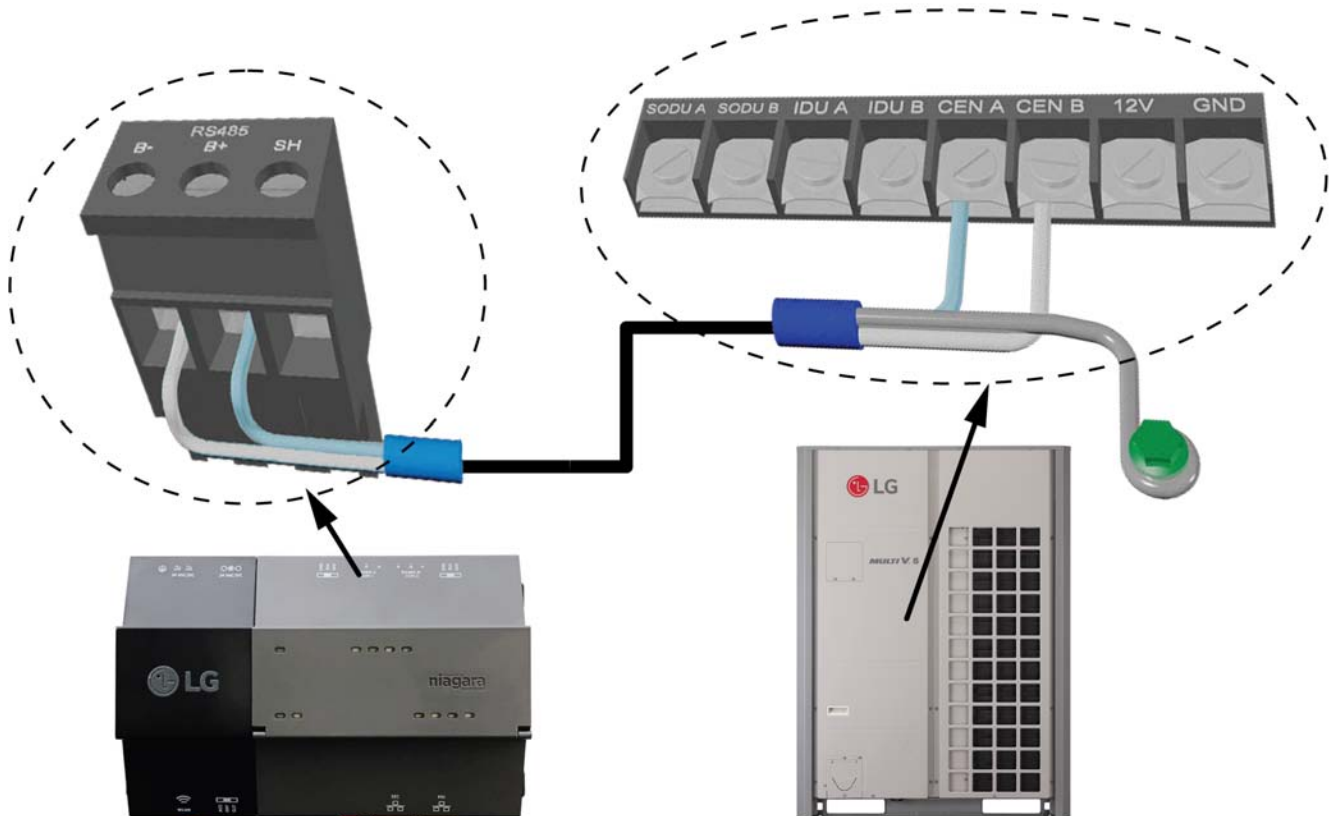
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Compatible with (DIN43880) enclosures

Suitable for mounting to a panel or to an EN50022 standard 35mm rail



Notes:

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MultiSITE Communications Manager BACnet® Object List

Indoor Unit Monitor and Control Points			
√	Name	Object Type	Description
	On/Off	BO	Start Stop Command
	On/Off	BI	Start Stop Status
	Lock	BO	Lock Command
	Lock	BI	Lock Status
	FilterSign	BI	Filter Sign
	FilterSign Release	BV	Filter Sign Reset
	OperationMode	MO	Operation Mode Command
	OperationMode	MI	Operation Mode Status
	Vane	BO	Vane Command
	Vane	BI	Vane Status
	FanSpeed	MO	Fan Speed Command
	FanSpeed	MI	Fan Speed Status
	RoomSetPoint	AV	Room Temperature Setpoint Setting
	RoomSetPoint	AI	Current Setpoint Status
	RoomTemp	AI	Room Temperature
	ERROR	AI	Malfunction Code
	PipeInTemp	AI	Pipe In Temperature
	PipeOutTemp	AI	Pipe Out Temperature
	UpperSetTempRange	AV	Upper Temperature Range Setting
	UpperSetTempRange	AI	Upper Temperature Range Status
	LowerSetTempRange	AV	Lower Temperature Range Setting
	LowerSetTempRange	AI	Lower Temperature Range Status
	FuncLock	BO	All Lock Command
	FuncLock	BI	All Lock Status
	ModeLock	BO	Mode Lock Command
	ModeLock	BI	Mode Lock Status
	FanLock	BO	Fan Lock Command
	FanLock	BI	Fan Lock Status
	TempLock	BO	Setpoint Temperature Lock Command
	TempLock	BI	Setpoint Temperature Lock Status
	Occ	BO	Occupancy Command
	Occ	BI	Occupancy Status
	CoolSetTemp	AV	Cooling Setpoint Setting
	CoolSetTemp	AI	Cooling Setpoint Status
	HeatSetTemp	AV	Heating Setpoint Setting
	HeatSetTemp	AI	Heating Setpoint Status
	CoolUpperTemp	AV	Cooling Upper Temperature Setting

Indoor Unit M&C points continued on next page.

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MultiSITE Communications Manager BACnet® Object List

Indoor Unit Monitor and Control Points - continued			
√	Name	Object Type	Description
	CoolUpperTemp	AI	Cooling Upper Temperature Status
	HeatUpperTemp	AV	Heating Upper Temperature Setting
	HeatUpperTemp	AI	Heating Upper Temperature Status
	CoolLowerTemp	AV	Cooling Lower Temperature Setting
	CoolLowerTemp	AI	Cooling Lower Temperature Status
	HeatLowerTemp	AV	Heating Lower Temperature Setting
	HeatLowerTemp	AI	Heating Lower Temperature Status
	ThermoOn/Off	MI	Thermal On/Off Status
	AccumPowerIDU	AI	Accumulator Power Distribution Status
	CurrentPowerIDU	AI	Current Indoor Power
	Deadband	AI	Deadband Status
	2SetAuto	AO	Enable 2Set Auto
	2SetAuto	AI	2Set Auto Status
	Override	BI	Override Status
	OccSensor	BI	Occupancy Sensor Status
	OccSensorInstalled	BI	Occupancy Sensor Installed
	2SetFuncSupport	BI	2Set Auto Support

MultiSITE Communications Manager BACnet® Object List

ERV Monitor and Control Points			
√	Name	Object Type	Description
	On/Off	BO	Start Stop Command
	On/Off	BI	Start Stop Status
	Lock	BO	Lock Command
	Lock	BI	Lock Status
	FilterSign	BI	Filter Sign
	FilterSignRelease	BV	Filter Sign Reset
	Fan Speed	MO	Fan Speed Setting
	Fan Speed	MI	Fan Speed Status
	Malfunction Code	AI	Malfunction Code
	Operation Mode	MO	Operational Mode
	Operation Mode	MI	Operational Mode Status
	Heater	BO	Heater Command
	Heater	BI	Heater Status
	Power Saving Status of ERV	BO	Power Saving Status of ERV Command
	Power Saving Status of ERV	BI	Power Saving Status of ERV Status
	Rapidity Status of ERV	BO	Rapidity Status of ERV Command
	Rapidity Status of ERV	BI	Rapidity Status of ERV Status
	RoomTemperature	AI	Room Temperature

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MultiSITE Communications Manager BACnet® Object List

ODU Monitor Only Points			
✓	Name	Object Type	Description
	RefrigerantType	MI	Type of Refrigerant
	ODUTypeUpperdigit	AI	HP, HR or Cool Only
	ODUTypeLowerdigit	AI	Generation
	ERROR	AI	Malfunction Code
	SlaveUnitQuantity	AI	Slave ODU Quantity
	Unithaserror	BI	Error Status
	ODU_OperationMode	MI	Operational Mode of Outdoor Unit
	Inv1CompCurrentFrequency	AI	Compressor_1 Current Frequency
	Inv2CompCurrentFrequency	AI	Compressor_2 Current Frequency
	CurrentFan1Frequency	AI	Fan_1 Frequency
	CurrentFan2Frequency	AI	Fan_2 Frequency
	OutsideTemp	AI	Outdoor Air Temperature
	CurrentHighPressure	AI	High Pressure
	CurrentLowPressure	AI	Low Pressure
	SuctionTemp	AI	Suction Temperature
	Inv1dischargeTemp	AI	Inverter_1 Discharge Temperature
	Inv2dischargeTemp	AI	Inverter_2 Discharge Temperature
	LiquidpipeTemp	AI	Liquid Pipe Temperature
	HeatExchangetemp	AI	Heat Exchange Temperature
	HeatExchangeuppertemp	AI	Heater Exchange Upper Temperature
	HeatExchangelowertemp	AI	Heater Exchange Lower Temperature
	SubcoolpipeinTemp	AI	Sub Cool Pipe-In Temperature
	SubcoolpipeoutTemp	AI	Sub Cool Pipe-Out Temperature
	MainEEV1Position	AI	Main EEV_1 Position
	MainEEV2Position	AI	Main EEV_2 Position
	SubcoolEEVPosition	AI	Sub Cooling EEV Position
	OILEQEEV	AI	Oil EEV
	VaporInjectionEEV1	AI	Vapor Injection EEV_1
	VaporInjectionEEV2	AI	Vapor Injection EEV_2
	Compquantity	AI	Compressor Quantity
	Inv1Heater	BI	Inverter_1 Heater
	Inv2Heater	BI	Inverter_2 Heater
	Inv1Oilsensor	BI	Inverter_1 Oil Sensor
	Inv2Oilsensor	BI	Inverter_2 Oil Sensor
	Inv1Backup	BI	Inverter_1 Backup
	Inv2Backup	BI	Inverter_2 Backup
	Inv1Capacity	AI	Inverter_1 Capacity

ODU Monitor Only points continued on next page.

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MultiSITE Communications Manager BACnet® Object List

ODU Monitor Only Points - continued			
√	Name	Object Type	Description
	Inv2Capacity	AI	Inverter_2 Capacity
	IDUqauntity	AI	Indoor Unit Quantity
	ODUcapacityHP	AI	Outdoor Unit HP Capacity
	ControlStepEnhaceCapacity	AI	Operating Capacity Control given by IO Module
	TargetCompPercent	AV	Operating Capacity Control
	TargetCompPercent	AI	Operating Capacity Status

MultiSITE Communications Manager BACnet® Object List

Hydrokit Monitor and Control Points			
√	Name	Object Type	Description
	On/Off	BO	On/Off Command
	On/Off	BI	On/Off Command Status
	Lock	BO	Lock Command
	Lock	BI	Lock Status
	OperationMode	MO	Operational Mode Setting
	OperationMode	MI	Operational Mode Status
	Air/WaterSetPoint	AO	Room Temperature Setpoint
	Air/WaterSetPoint	AI	Room Temperature Setpoint Status
	HotwaterSetPoint	AV	Hot Water Setpoint
	HotwaterSetPoint	AI	Hot Water Setpoint Status
	ControlMode	BO	Control Mode Command
	ControlMode	BI	Control Mode Status
	HotwaterOnly	BI	Hot Water Only Status
	RoomTemp	AI	Room Temperature
	ERROR	AI	Malfunction Code
	HotwaterOperation	BO	Hot Water Operation Command
	HotwaterOperation	BI	Hot Water Operation Status
	WaterInTemp	AI	Water In Temperature
	WaterOutTemp	AI	Water Out Temperature
	HotwaterTankTemp	AI	Hot Water Tank Temperature
	SolarSourceTemp	AI	Solar Temperature
	SetPipeOutWaterTempCommand	AV	Supply Water Temperature Command
	SetPipeOutWaterTempStatus	AI	Supply Water Temperature Status

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MultiSITE Communications Manager LonWorks® Network Variables List

Indoor Unit Monitor and Control Points			
√	Name	Network Variable	Description
	nviLock	SNVT_switch	Start Stop Command
	nvoLock	SNVT_switch	Start Stop Status
	nviFilterSign	SNVT_switch	Filter Sign
	nvoFilterSignRelease	SNVT_switch	Filter Sign Reset
	nviMode	SNVT_hvac_mode	Operation Mode Command
	nvoMode	SNVT_hvac_mode	Operation Mode Status
	nviSwing	SNVT_switch	Vane Command
	nvoSwing	SNVT_switch	Vane Status
	nviFanSpeed	SNVT_switch	Fan Speed Command
	nvoFanSpeed	SNVT_switch	Fan Speed Status
	nviSetPoint	SNVT_temp_p	Room Temperature Setpoint Setting
	nvoSetPoint	SNVT_temp_p	Current Setpoint Status
	nvoRoomTemp	SNVT_temp_p	Room Temperature
	nvoERROR	SNVT_hvac_status	Malfunction Code
	nvoPipeInTemp	SNVT_temp_p	Pipe In Temperature
	nvoPipeOutTemp	SNVT_temp_p	Pipe Out Temperature
	nviUpperSetTempRange	SNVT_temp_p	Upper Temperature Range Setting
	nvoUpperSetTempRange	SNVT_temp_p	Upper Temperature Range Status
	nviLowerSetTempRange	SNVT_temp_p	Lower Temperature Range Setting
	nvoLowerSetTempRange	SNVT_temp_p	Lower Temperature Range Status
	nviFuncLock	SNVT_switch	All Lock Command
	nvoFuncLock	SNVT_switch	All Lock Status
	nviModeLock	SNVT_switch	Mode Lock Command
	nvoModeLock	SNVT_switch	Mode Lock Status
	nviFanLock	SNVT_switch	Fan Lock Command
	nvoFanLock	SNVT_switch	Fan Lock Status
	nviTempLock	SNVT_switch	Setpoint Temperature Lock Command
	nvoTempLock	SNVT_switch	Setpoint Temperature Lock Status
	nviOcc	SNVT_switch	Occupancy Command
	nvoOcc	SNVT_switch	Occupancy Status
	nviCoolSetTemp	SNVT_temp_p	Cooling Setpoint Setting
	nvoCoolSetTemp	SNVT_temp_p	Cooling Setpoint Status
	nviHeatSetTemp	SNVT_temp_p	Heating Setpoint Setting
	nvoHeatSetTemp	SNVT_temp_p	Heating Setpoint Status
	nviCoolUpperTemp	SNVT_temp_p	Cooling Upper Temperature Setting
	nvoCoolUpperTemp	SNVT_temp_p	Cooling Upper Temperature Status
	nviHeatUpperTemp	SNVT_temp_p	Heating Upper Temperature Setting
	nvoHeatUpperTemp	SNVT_temp_p	Heating Upper Temperature Status

Indoor Unit M&C points continued on next page.

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MultiSITE Communications Manager LonWorks® Network Variables List

Indoor Unit Monitor and Control Points - continued			
√	Name	Network Variable	Description
	nviCoolLowerTemp	SNVT_temp_p	Cooling Lower Temperature Setting
	nvoCoolLowerTemp	SNVT_temp_p	Cooling Lower Temperature Status
	nviHeatLowerTemp	SNVT_temp_p	Heating Lower Temperature Setting
	nvoHeatLowerTemp	SNVT_temp_p	Heating Lower Temperature Status
	nvoThermoOn/Off	SNVT_switch	Thermal On/Off Status
	nvoAccumPowerIDU	SNVT_count_f	Accumulator Power Distribution Status
	nvoCurrentPowerIDU	SNVT_count_f	Current Indoor Power
	nvoDeadband	SNVT_temp_p	Deadband Status
	nvi2SetAuto	SNVT_switch	Enable 2Set Auto
	nvo2SetAuto	SNVT_switch	2Set Auto Status
	nvoOverride	SNVT_switch	Override Status
	nvoOccSensor	SNVT_switch	Occupancy Sensor Status
	nvoOccSensorInstalled	SNVT_switch	Occupancy Sensor Installed
	nvo2SetFuncSupport	SNVT_switch	2Set Auto Support

MultiSITE Communications Manager LonWorks® Network Variables List

ERV Monitor and Control Points			
√	Name	Network Variable	Description
	nviOperation	SNVT_switch	Start Stop Command
	nvoOperation	SNVT_switch	Start Stop Status
	nviLock	SNVT_switch	Lock Command
	nvoLock	SNVT_switch	Lock Status
	nviFilterSign	SNVT_switch	Filter Sign
	nvoFilterSignRelease	SNVT_switch	Filter Sign Reset
	nviFanSpeed	SNVT_switch	Fan Speed Setting
	nvoFanSpeed	SNVT_switch	Fan Speed Status
	nvoERROR	SNVT_hvac_status	Malfunction Code
	nviMode	SNVT_hvac_mode	Operational Mode
	nvoMode	SNVT_hvac_mode	Operational Mode Status
	nviHeater	SNVT_switch	Heater Command
	nvoHeater	SNVT_switch	Heater Status
	nviDrift	SNVT_count	Power Saving Status of ERV Command
	nvoDrift	SNVT_count	Power Saving Status of ERV Status
	nviQuick	SNVT_switch	Rapidity Status of ERV Command
	nvoQuick	SNVT_switch	Rapidity Status of ERV Status
	nvoRoomTemp	SNVT_temp_p	Room Temperature

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MultiSITE Communications Manager LonWorks® Network Variables List

ODU Monitor Only Points			
√	Name	Network Variable	Description
	nvoRefrigerantType	SNVT_count_f	Type of Refrigerant
	nvoODUTypeUpperdigit	SNVT_count_f	HP, HR or Cool Only
	nvoODUTypeLowerdigit	SNVT_count_f	Generation
	nvoERROR	SNVT_hvac_mode	Malfunction Code
	nvoSlaveUnitQuantity	SNVT_count_f	Slave ODU Quantity
	nvoUnithaserror	SNVT_switch	Error Status
	nvoODU_OperationMode	SNVT_count_f	Operational Mode of Outdoor Unit
	nvoInv1CompCurrentFrequency	SNVT_count_f	Compressor_1 Current Frequency
	nvoInv2CompCurrentFrequency	SNVT_count_f	Compressor_2 Current Frequency
	nvoCurrentFan1Frequency	SNVT_count_f	Fan_1 Frequency
	nvoCurrentFan2Frequency	SNVT_count_f	Fan_2 Frequency
	nvoOutsideTemp	SNVT_temp_p	Outdoor Air Temperature
	nvoCurrentHighPressure	SNVT_count_f	High Pressure
	nvoCurrentLowPressure	SNVT_count_f	Low Pressure
	nvoSuctionTemp	SNVT_temp_p	Suction Temperature
	nvoInv1dischargeTemp	SNVT_temp_p	Inverter_1 Discharge Temperature
	nvoInv2dischargeTemp	SNVT_temp_p	Inverter_2 Discharge Temperature
	nvoLiquidpipeTemp	SNVT_temp_p	Liquid Pipe Temperature
	nvoHeatExchangetemp	SNVT_temp_p	Heat Exchange Temperature
	nvoHeatExchangeuppertemp	SNVT_temp_p	Heater Exchange Upper Temperature
	nvoHeatExchangelowertemp	SNVT_temp_p	Heater Exchange Lower Temperature
	nvoSubcoolpipeinTemp	SNVT_temp_p	Sub Cool Pipe-In Temperature
	nvoSubcoolpipeoutTemp	SNVT_temp_p	Sub Cool Pipe-Out Temperature
	nvoMainEEV1Position	SNVT_count_f	Main EEV_1 Position
	nvoMainEEV2Position	SNVT_count_f	Main EEV_2 Position
	nvoSubcoolEEVPosition	SNVT_count_f	Sub Cooling EEV Position
	nvoOILEQEEV	SNVT_count_f	Oil EEV
	nvoVaporInjectionEEV1	SNVT_count_f	Vapor Injection EEV_1
	nvoVaporInjectionEEV2	SNVT_count_f	Vapor Injection EEV_2
	nvoCompquantity	SNVT_count_f	Compressor Quantity
	nvoInv1Heater	SNVT_switch	Inverter_1 Heater
	nvoInv2Heater	SNVT_switch	Inverter_2 Heater
	nvoInv1Oilsensor	SNVT_switch	Inverter_1 Oil Sensor
	nvoInv2Oilsensor	SNVT_switch	Inverter_2 Oil Sensor
	nvoInv1Backup	SNVT_switch	Inverter_1 Backup

ODU Monitor Only points continued on next page.

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MultiSITE Communications Manager LonWorks® Network Variables List

ODU Monitor Only Points - continued			
√	Name	Network Variable	Description
	nvoInv2Backup	SNVT_switch	Inverter_2 Backup
	nvoInv1Capacity	SNVT_count_f	Inverter_1 Capacity
	nvoInv2Capacity	SNVT_count_f	Inverter_2 Capacity
	nvoIDUqauntity	SNVT_count_f	Indoor Unit Quantity
	nvoODUcapacityHP	SNVT_count_f	Outdoor Unit HP Capacity
	nvoControlStepEnhaceCapacity	SNVT_count_f	Operating Capacity Control given by IO Module
	nviTargetCompPercent	SNVT_count_f	Operating Capacity Control
	nvoTargetCompPercent	SNVT_count_f	Operating Capacity Status

MultiSITE Communications Manager LonWorks® Network Variables List

Hydrokit Monitor and Control Points			
√	Name	Network Variable	Description
	nviOperation	SNVT_switch	On/Off Command
	nvoOperation	SNVT_switch	On/Off Command Status
	nviLock	SNVT_switch	Lock Command
	nvoLock	SNVT_switch	Lock Status
	nviOperationMode	SNVT_hvac_mode	Operational Mode Setting
	nvoOperationMode	SNVT_hvac_mode	Operational Mode Status
	nviAir/WaterSetPoint	SNVT_temp_p	Room Temperature Setpoint
	nvoAir/WaterSetPoint	SNVT_temp_p	Room Temperature Setpoint Status
	nviHotwaterSetPoint	SNVT_temp_p	Hot Water Setpoint
	nvoHotwaterSetPoint	SNVT_temp_p	Hot Water Setpoint Status
	nviControlMode	SNVT_switch	Control Mode Command
	nvoControlMode	SNVT_switch	Control Mode Status
	nvoHotwaterOnly	SNVT_switch	Hot Water Only Status
	nvoRoomTemp	SNVT_temp_p	Room Temperature
	nvoERROR	SNVT_hvac_status	Malfunction Code
	nviHotwaterOperation	SNVT_switch	Hot Water Operation Command
	nvoHotwaterOperation	SNVT_switch	Hot Water Operation Status
	nvoWaterInTemp	SNVT_temp_p	Water In Temperature
	nvoWaterOutTemp	SNVT_temp_p	Water Out Temperature
	nvoHotwaterTankTemp	SNVT_temp_p	Hot Water Tank Temperature
	nvoSolarSourceTemp	SNVT_temp_p	Solar Temperature
	SetPipeOutWaterTempCommand	SNVT_temp_p	Supply Water Temperature Command
	SetPipeOutWaterTempStatus	SNVT_temp_p	Supply Water Temperature Status

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