Job Name/Location: Tag No.:

Date:

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other_____

PO No.:

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)

PBACNBTR1B

LG MultiSITE™ VM3

Electrical:

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

40 VA transformer recommended.

Ambient 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 2.4" 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) isolated 10/100 Mbps 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
- System view from any browser or device
- Improved Integration Platform
- Enhanced Security

Includes LG ACP User Interface on Port Com 1 Only
- Operation – On/Off
- Mode – Auto/Cool/Dry/Heat/Fan Only
- Fan Speed – Auto/Low/Med/High/Power
- Louver Swing
- Two Setpoint Auto-Changeover
- Two Setpoint Setback
- Speed, Controller Lock, and Louver Swing
- Temperature Setpoint Range Limit
- Remote Controller Lock (All, Setpoint, Mode, Fan Speed)

Required Accessories
- The LG MultiSITE Supervisor Demo (Workbench) Configuation & Programming Tool (ZSWSUPDEMO).

Notes:

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

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 ACP
Ethernet 10/100 Mbps

Communications Cabling Specifications (V-Net):

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

AWG: American Wire Gauge.

Niagra 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):

Device Upgrade and Software Maintenance:
- ☐ ZSWDVCA01 - 1 Device Upgrade
- ☐ ZSWDVCA10 - 10 Device Upgrade
- ☐ ZSWDVCA25 - 25 Device Upgrade
- ☐ ZSWDVCA50 - 50 Device Upgrade
- ☐ ZSWADD128 - Adder Pack for up to 128 additional LG VRF units for a total of 256 LG VRF Units
- ☐ ZSMA01BMS - 18 month maintenance support
- ☐ ZSMA05BMS - 5 year maintenance support

Expansion and Remote Modules:
- ☐ ZHWREMIO16 - Remote I/O Module 16 Point
- ☐ ZHWREMIO34 - Remote I/O Module 34 Point
- ☐ ZHW485M0 - RS485 Expansion Module
- ☐ ZHWLONWK0 - LON Module

Power Adapter:
- ☐ ZHWPWADT - Wall Power Adapter

MultiSITE Supervisor:
- ☐ ZSWSUPN01A - Supervisor 1 Niagara networks + Initial SMA 1yr
- ☐ ZSWSUPN03A - Supervisor 3 Niagara networks + Initial SMA 1yr
- ☐ ZSWSUPN10A - Supervisor 10 Niagara networks + Initial SMA 1yr
- ☐ ZSWSUPN00A - Supervisor 100 Niagara networks + initial SMA 1yr

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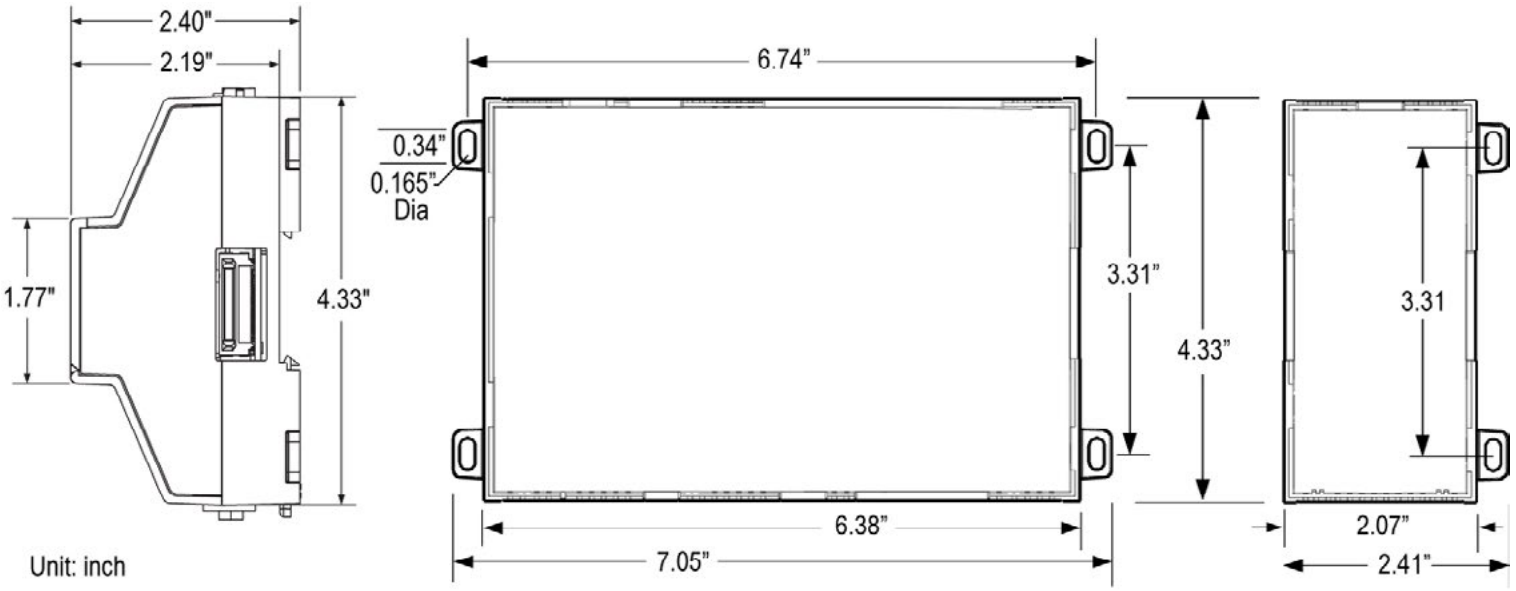
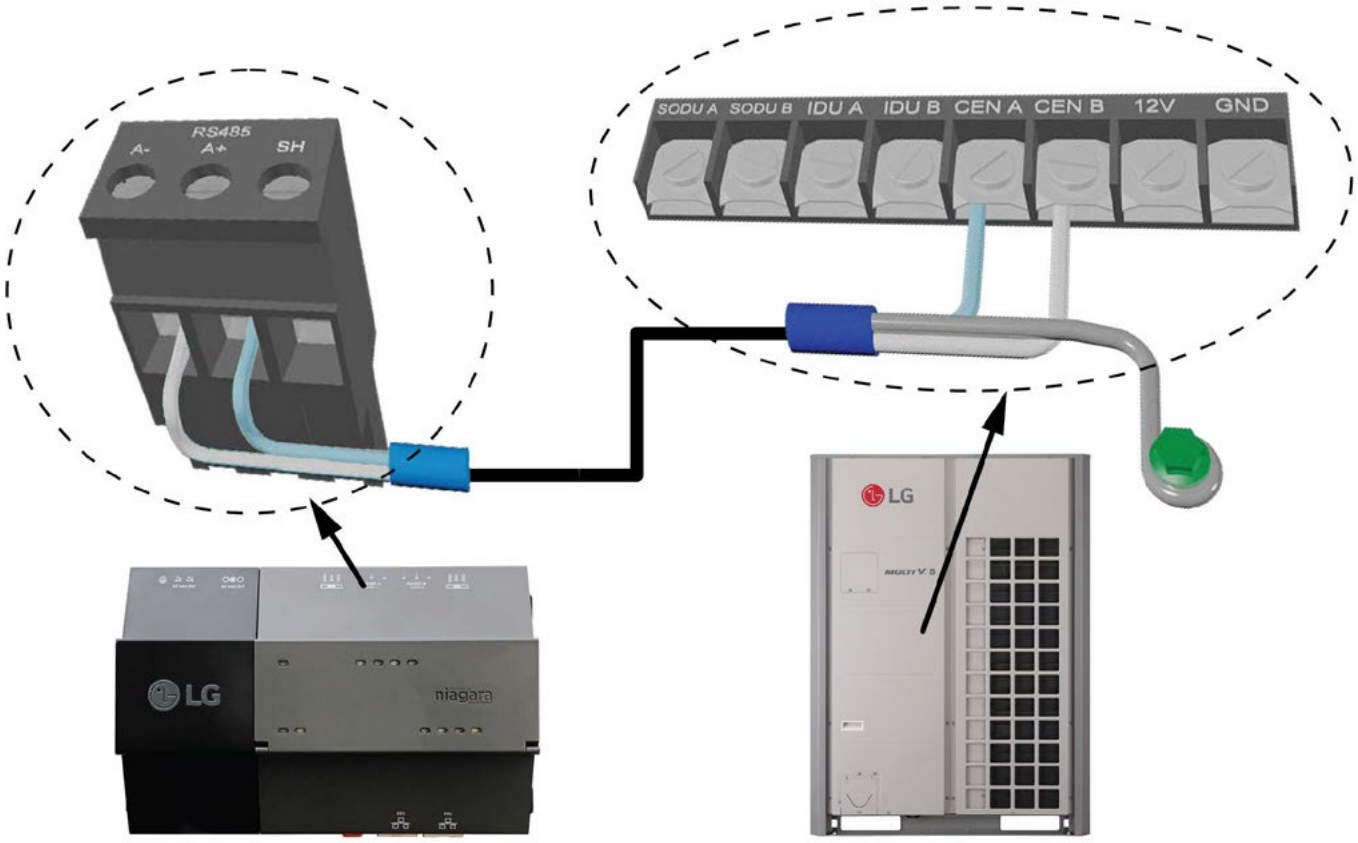


Compatible with (DIN43880) enclosures
Suitable for mounting to a panel or to an EN50022 standard 35mm rail



Notes:

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

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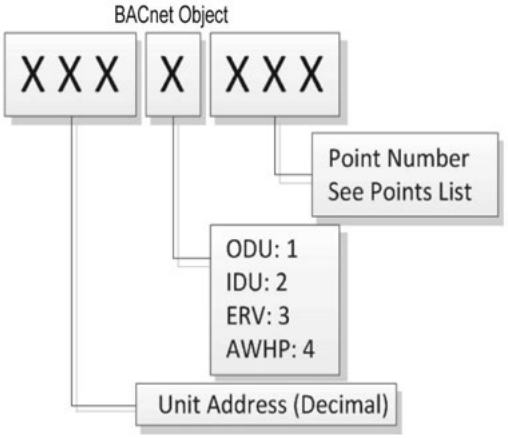
Note that BACnet Object IDs are in decimal and are specific to unit type:

ODU Master - xxx1001 - xxx1088
ODU Control - xxx10089 - xxx10107
ODU Slave 1 - xxx1101 - xxx1188
ODU Slave 2 - xxx1201 - xxx1288
ODU Slave 3 - xxx1301 - xxx1388

IDU - xxx2001 - xxx2072
ERV - xxx3001 - xxx3016
AWHP - xxx4001 - xxx4021



Niagra Points:
NP = Numeric Point
NW = Numeric Writable
EP = Enum Point
EW = Enum Writeable
BP = Boolean Point
BW = Boolean Writable
SP = String Point

BACnet Objects:
AI = Analog Input
BI = Binary Input
BO = Binary Output
MI = Multistate Input
MO = Multistate Output

Note: Maximum number of LG Devices for LonWorks export is 40.

ODU Master Points

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
ErrorCode(M)	NP	ErrorCode(M)	AI	xxx1001	nvoERROR_[Device Name]	SNVT_count
RefrigentType(M)	EP	RefrigentType(M)	MI	xxx1002	nvoRefrigerantType_[Device Name]	SNVT_count
ODUTypeUpperDigit(M)	EP	ODUTypeUpperDigit(M)	MI	xxx1003	nvoODUTypeUpperdigit_[Device Name]	SNVT_count
ODUTypeLowerDigit(M)	EP	ODUTypeLowerDigit(M)	MI	xxx1004	nvoODUTypelowerdigit_[Device Name]	SNVT_count
SlaveUnitQuantity(M)	NP	SlaveUnitQuantity(M)	AI	xxx1005	nvoSlaveUnitQuantity_[Device Name]	SNVT_count_f
UnitHasError(M)	NP	UnitHasError(M)	AI	xxx1006	nvoUnithaserror_[Device Name]	SNVT_switch
OduOperationMode(M)	EP	OduOperationMode(M)	MI	xxx1007	nvoOduOperationMode_[Device Name]	SNVT_count_f
Inv1CompFrequency(M)	NP	Inv1CompFrequency(M)	AI	xxx1008	nvoInv1CompCurrentFrequency_[Device Name]	SNVT_count_f
Inv2CompFrequency(M)	NP	Inv2CompFrequency(M)	AI	xxx1009	nvoInv2CompCurrentFrequency_[Device Name]	SNVT_count_f
CurrentFan1Frequency(M)	NP	CurrentFan1Frequency(M)	AI	xxx1010	nvoCurrentFan1Frequency_[Device Name]	SNVT_count_f
CurrentFan2Frequency(M)	NP	CurrentFan2Frequency(M)	AI	xxx1011	nvoCurrentFan2Frequency_[Device Name]	SNVT_count_f
OutsideTemp(M)	NP	OutsideTemp(M)	AI	xxx1012	nvoOutsideTemp_[Device Name]	SNVT_count_inc_f
CurrentHighPressure(M)	NP	CurrentHighPressure(M)	AI	xxx1013	nvoCurrentHighPressure_[Device Name]	SNVT_count_f
CurrentLowPressure(M)	NP	CurrentLowPressure(M)	AI	xxx1014	nvoCurrentLowPressure_[Device Name]	SNVT_count_f
SuctionTemp(M)	NP	SuctionTemp(M)	AI	xxx1015	nvoSuctionTemp_[Device Name]	SNVT_count_inc_f
Inverter1DischargeTemp(M)	NP	Inverter1DischargeTemp(M)	AI	xxx1016	nvoInv1DischargeTemp_[Device Name]	SNVT_count_inc_f
Inverter2DischargeTemp(M)	NP	Inverter2DischargeTemp(M)	AI	xxx1017	nvoInv2DischargeTemp_[Device Name]	SNVT_count_inc_f
Std1DischargeTemp(M)	NP	Std1DischargeTemp(M)	AI	xxx1018	nvoStd1DischargeTemp_[Device Name]	SNVT_count_inc_f
Std2DischargeTemp(M)	NP	Std2DischargeTemp(M)	AI	xxx1019	nvoStd2DischargeTemp_[Device Name]	SNVT_count_inc_f
LiquidPipeTemp(M)	NP	LiquidPipeTemp(M)	AI	xxx1020	nvoLiquidPipeTemp_[Device Name]	SNVT_count_inc_f
HeatExchangeTemp(M)	NP	HeatExchangeTemp(M)	AI	xxx1021	nvoHeatExchangeTemp_[Device Name]	SNVT_count_inc_f
HeatExchangeUpperTemp(M)	NP	HeatExchangeUpperTemp(M)	AI	xxx1022	nvoHeatExchangeUpperTemp_[Device Name]	SNVT_count_inc_f
HeatExchangeLowerTemp(M)	NP	HeatExchangeLowerTemp(M)	AI	xxx1023	nvoHeatExchangeLowerTemp_[Device Name]	SNVT_count_inc_f
SubCoolPipeInTemp(M)	NP	SubCoolPipeInTemp(M)	AI	xxx1024	nvoSubCoolPipeInTemp_[Device Name]	SNVT_count_inc_f
SubCoolPipeOutTemp(M)	NP	SubCoolPipeOutTemp(M)	AI	xxx1025	nvoSubCoolPipeOutTemp_[Device Name]	SNVT_count_inc_f

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ODU Master Points - continued

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
Main1EevPulse(M)	NP	Main1EevPulse(M)	AI	xxx1026	nvoMainEev1Position_[Device Name]	SNVT_count_f
Main2EevPulse(M)	NP	Main2EevPulse(M)	AI	xxx1027	nvoMainEev2Position_[Device Name]	SNVT_count_f
SubEevPulse(M)	NP	SubEevPulse(M)	AI	xxx1028	nvoSubEevPosition_[Device Name]	SNVT_count_f
SubCoolEevPulse(M)	NP	SubCoolEevPulse(M)	AI	xxx1029	nvoSubCoolEevPosition_[Device Name]	SNVT_count_f
OilEqEev(M)	NP	OilEqEev(M)	AI	xxx1030	nvoOilEqEev_[Device Name]	SNVT_count_f
ViEev1(M) [Vapor Injection]	NP	ViEev1(M) [Vapor Injection]	AI	xxx1031	nvoVaporInjectionEEV1_[Device Name]	SNVT_count_f
ViEev2(M) [Vapor Injection]	NP	ViEev2(M) [Vapor Injection]	AI	xxx1032	nvoVaporInjectionEEV2_[Device Name]	SNVT_count_f
ConnectedIduNumber(M)	NP	ConnectedIduNumber(M)	AI	xxx1033	nvoIDUQuantity_[Device Name]	SNVT_count_f
OduCapacity(M)	NP	OduCapacity(M)	AI	xxx1034	nvoOduCapacity_[Device Name]	SNVT_count_f
ControlStep(M)	NP	ControlStep(M)	AI	xxx1035	nvoControlStep_[Device Name]	SNVT_count_f
Inv2Capacity(M)	EP	Inv2Capacity(M)	MI	xxx1036	nvoInv2Capacity_[Device Name]	SNVT_count
Inv1Heater(M)	BP	Inv1Heater(M)	BI	xxx1037	nvoInv1Heater_[Device Name]	SNVT_switch
Inv2Heater(M)	BP	Inv2Heater(M)	BI	xxx1038	nvoInv2Heater_[Device Name]	SNVT_switch
Inv1OilSensor(M)	BP	Inv1OilSensor(M)	BI	xxx1039	nvoInv1OilSensor_[Device Name]	SNVT_switch
Inv2OilSensor(M)	BP	Inv2OilSensor(M)	BI	xxx1040	nvoInv2OilSensor_[Device Name]	SNVT_switch
CompressorQuantity(M)	NP	CompressorQuantity(M)	AI	xxx1041	nvoCompQuantity_[Device Name]	SNVT_count_f
Inv1Backup(M)	BP	Inv1Backup(M)	BI	xxx1042	nvoInv1Backup_[Device Name]	SNVT_switch
Inv2Backup(M)	BP	Inv2Backup(M)	BI	xxx1043	nvoInv2Backup_[Device Name]	SNVT_switch
Inv1Capacity(M)	EP	Inv1Capacity(M)	MI	xxx1044	nvoInv1Capacity_[Device Name]	SNVT_count
Ddc(M)	BP	Ddc(M)	BI	xxx1045	nvoDdc_[Device Name]	SNVT_switch
MicomSvcVersion(M)	SP	MicomSvcVersion(M)	AI	xxx1049	nvoMicomSvcVersion_[Device Name]	SNVT_count_f
Inv1InputCurrent(M)	NP	Inv1InputCurrent(M)	AI	xxx1050	nvoInv1InputCurrent_[Device Name]	SNVT_count_f
Inv2InputCurrent(M)	NP	Inv2InputCurrent(M)	AI	xxx1051	nvoInv2InputCurrent_[Device Name]	SNVT_count_f
Inv1InputVoltage(M)	NP	Inv1InputVoltage(M)	AI	xxx1052	nvoInv1InputVoltage_[Device Name]	SNVT_count_f
Inv2InputVoltage(M)	NP	Inv2InputVoltage(M)	AI	xxx1053	nvoInv2InputVoltage_[Device Name]	SNVT_count_f
Inv1DcLinkVoltage(M)	NP	Inv1DcLinkVoltage(M)	AI	xxx1054	nvoInv1DcLinkVoltage_[Device Name]	SNVT_count_f
Inv2DcLinkVoltage(M)	NP	Inv2DcLinkVoltage(M)	AI	xxx1055	nvoInv2DcLinkVoltage_[Device Name]	SNVT_count_f
CompOutputVoltageLtoL(M)	NP					
CompOutputCurrent(M)	NP					
CompDCurrent(M)	NP					
CompQCurrent(M)	NP					
Fan1OutputVoltageLtoL(M)	NP					
Fan2OutputVoltageLtoL(M)	NP					
Fan1OutputCurrent(M)	NP	Fan1OutputCurrent(M)	AI	xxx1056	nvoFan1OutputCurrent_[Device Name]	SNVT_count_f
Fan2OutputCurrent(M)	NP	Fan2OutputCurrent(M)	AI	xxx1057	nvoFan2OutputCurrent_[Device Name]	SNVT_count_f
Inv1OutputCurrent(M)	NP	Inv1OutputCurrent(M)	AI	xxx1058	nvoInv1OutputCurrent_[Device Name]	SNVT_count_f
Inv1Heatsink(M)	NP	Inv1Heatsink(M)	AI	xxx1059	nvoInv1Heatsink_[Device Name]	SNVT_count_f
Inv2Heatsink(M)	NP	Inv2Heatsink(M)	AI	xxx1060	nvoInv2HeatSink_[Device Name]	SNVT_count_f
pt4WayValve1(M)	BP	pt4WayValve1(M)	BI	xxx1061	nvopt4WayValve1_[Device Name]	SNVT_switch
pt4WayValve2(M)	BP	pt4WayValve2(M)	BI	xxx1062	nvopt4WayValve2_[Device Name]	SNVT_switch
AccumOilReturnValve(M)	BP	AccumOilReturnValve(M)	BI	xxx1063	nvoAccumOilReturnValve_[Device Name]	SNVT_switch

ODU Master Points - continued

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
VariablePathValve(M)	BP	VariablePathValve(M)	BI	xxx1064	nvoVariablePathValve_[Device Name]	SNVT_switch
LowerSideHeatExchangeValve(M)	BP	LowerSideHeatExchangeValve(M)	BI	xxx1065	nvoLowerSideHeatExchangeValve_[Device Name]	SNVT_switch
UpperSideHeatExchangeValve(M)	BP	UpperSideHeatExchangeValve(M)	BI	xxx1066	nvoUpperSideHeatExchangeValve_[Device Name]	SNVT_switch
SuctionInjectionValve(M)	BP	SuctionInjectionValve(M)	BI	xxx1067	nvoSuctionInjectionValve_[Device Name]	SNVT_switch
ReceiverInValve(M)	BP	ReceiverInValve(M)	BI	xxx1068	nvoReceiverInValve_[Device Name]	SNVT_switch
ReceiverOutValve(M)	BP	ReceiverOutValve(M)	BI	xxx1069	nvoReceiverOutValve_[Device Name]	SNVT_switch
Inv2OutputCurrent(M)	NP	Inv2OutputCurrent(M)	AI	xxx1070	nvoInv2OutputCurrent_[Device Name]	SNVT_count_f
HotGas(M)	BP	HotGas(M)	BI	xxx1080	nvoHotGas_[Device Name]	SNVT_switch
Pfc(M)	BP					
CompOverLoad(M)	BP					
VariableFlowValveOutput(M)	NP	VariableFlowValveOutput(M)	AI	xxx1071	nvoVariableFlowValveOutput_[Device Name]	SNVT_count_f
VariableFlowValveLowerLimit(M)	NP	VariableFlowValveLowerLimit(M)	AI	xxx1072	nvoVariableFlowValveLowerLimit_[Device Name]	SNVT_count_f
WaterTempSensor(M)	NP	WaterTempSensor(M)	AI	xxx1073	nvoWaterTempSensor_[Device Name]	SNVT_count_f
CoolingFan(M)	BP	CoolingFan(M)	BI	xxx1074	nvoCoolingFan_[Device Name]	SNVT_switch
CheckSolValve(M)	BP	CheckSolValve(M)	BI	xxx1075	nvoCheckSolValve_[Device Name]	SNVT_switch
pt220v(M)	BP	pt220v(M)	BI	xxx1076	nvopt220v_[Device Name]	SNVT_switch
DviEev(M) -> TviEev(M)	NP	DviEev(M) -> TviEev(M)	AI	xxx1077	nvoDviEev_[Device Name]	SNVT_count_f
ActiveOilValve1(M)	BP	ActiveOilValve1(M)	BI	xxx1078	nvoActiveOilValve1_[Device Name]	SNVT_switch
ActiveOilValve2(M)	BP	ActiveOilValve2(M)	BI	xxx1079	nvoActiveOilValve2_[Device Name]	SNVT_switch
ConstCompLiqValve(M)	BP					
ConstComp(M)	BP					
HeatSourceWaterIn(M)	NP	HeatSourceWaterIn(M)	AI	xxx1046	nvoHeatSourceWaterIn_[Device Name]	SNVT_count_inc_f
HeatCancelEEVTemp(M)	NP	HeatCancelEEVTemp(M)	AI	xxx1047	nvoHeatCancelEEVTemp_[Device Name]	SNVT_count_inc_f
HeatCancelEEV(M)	NP	HeatCancelEEV(M)	AI	xxx1048	nvoHeatCancelEEV_[Device Name]	SNVT_count_f
SCTarget(M)	NP	SCTarget(M)	AI	xxx1081	nvoSCTarget_[Device Name]	SNVT_count_inc_f
CondenseTemp(M)	NP	CondenseTemp(M)	AI	xxx1082	nvoCondenseTemp_[Device Name]	SNVT_count_inc_f
SCTrace(M)	NP	SCTrace(M)	AI	xxx1083	nvoSCTrace_[Device Name]	SNVT_count_inc_f
SHTarget(M)	NP	SHTarget(M)	AI	xxx1084	nvoSHTarget_[Device Name]	SNVT_count_inc_f
EvapTemp(M)	NP	EvapTemp(M)	AI	xxx1085	nvoEvapTemp_[Device Name]	SNVT_count_inc_f
SHTrace(M)	NP	SHTrace(M)	AI	xxx1086	nvoSHTrace_[Device Name]	SNVT_count_inc_f
Inverter1Target(M)	NP	Inverter1Target(M)	AI	xxx1087	nvoInverter1Target_[Device Name]	SNVT_count_f
Inverter2Target(M)	NP	Inverter2Target(M)	AI	xxx1088	nvoInverter2Target_[Device Name]	SNVT_count_f

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ODU Control Points

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
LowNoiseStart(M)	BP	LowNoiseStart(M)	BI	xxx10089		
LowNoiseStart(C)	BW	LowNoiseStart(C)	BO	xxx10090		
LowNoiseEnable(M)	BP	LowNoiseEnable(M)	BI	xxx10091		
LowNoiseEnable(C)	BW	LowNoiseEnable(C)	BO	xxx10092		
RemoveSnow(M)	BP	RemoveSnow(M)	BI	xxx10093		
RemoveSnow(C)	BW	RemoveSnow(C)	BO	xxx10094		
AddDefrost(M)	BP	AddDefrost(M)	BI	xxx10095		
AddDefrost(C)	BW	AddDefrost(C)	BO	xxx10096		
TargetHighLowPressure(M)	NP	TargetHighLowPressure(M)	AI	xxx10097		
TargetHighLowPressure(C)	NW	TargetHighLowPressure(C)	AV	xxx10098		
RefrigerantNoiseReductionStep(M)	EP	RefrigerantNoiseReductionStep(M)	MSI	xxx10099		
RefrigerantNoiseReductionStep(C)	EW	RefrigerantNoiseReductionStep(C)	MSO	xxx10100		
SLCStatus(M)	BP	SLCStatus(M)	BI	xxx10101		
SLCStatus(C)	BW	SLCStatus(C)	BO	xxx10102		
SLCStep(M)	EP	SLCStep(M)	MSI	xxx10103		
SLCStep(C)	EW	SLCStep(C)	MSO	xxx10104		
RefrigerantNoiseReductionAvailable(M)	BP	RefrigerantNoiseReductionAvailable(M)	BI	xxx10105		
SLC4StageAvailable(M)	BP	SLC4StageAvailable(M)	BI	xxx10106		
SLCAvailable(M)	BP	SLCAvailable(M)	BI	xxx10107		

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Indoor Unit Points

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
ErrorCode(M)	NP	ErrorCode(M)	AI	xxx2001	nvoERROR_[Device Name]	SNVT_count
LockSetting(M)	BP	LockSetting(M)	BI	xxx2002	nvoLock_[Device Name]	SNVT_switch
LockSetting(C)	BW	LockSetting(C)	BO	xxx2003	nviLock_[Device Name]	SNVT_switch
OperationSetting(M)	BP	OperationSetting(M)	BI	xxx2004	nvoOperation_[Device Name]	SNVT_switch
OperationSetting(C)	BW	OperationSetting(C)	BO	xxx2005	nviOperation_[Device Name]	SNVT_switch
FilterSign(M)	BP	FilterSign(M)	BI	xxx2006	nvoFilterSign_[Device Name]	SNVT_switch
FanSpeedSetting(M)	EP	FanSpeedSetting(M)	MI	xxx2007	nvoFanSpeed_[Device Name]	SNVT_count
FanSpeedSetting(C)	EW	FanSpeedSetting(C)	MO	xxx2008	nviFanSpeed_[Device Name]	SNVT_count
SwingSetting(M)	BP	SwingSetting(M)	BI	xxx2009	nvoSwing_[Device Name]	SNVT_switch
SwingSetting(C)	BW	SwingSetting(C)	BO	xxx2010	nviSwing_[Device Name]	SNVT_switch
ModeSetting(M)	EP	ModeSetting(M)	MI	xxx2011	nvoMode_[Device Name]	SNVT_count
ModeSetting(C)	EW	ModeSetting(C)	MO	xxx2012	nviMode_[Device Name]	SNVT_count
SetPointSetting(M)	NP	SetPointSetting(M)	AI	xxx2013	nvoSetPoint_[Device Name]	SNVT_count_inc_f
SetPointSetting(C)	NW	SetPointSetting(C)	AV	xxx2014	nviSetPoint_[Device Name]	SNVT_count_inc_f
RoomTemperature(M)	NP	RoomTemperature(M)	AI	xxx2015	nvoRoomTemp_[Device Name]	SNVT_count_inc_f
PipeInTemperature(M)	NP	PipeInTemperature(M)	AI	xxx2016	nvoPipeInTemp_[Device Name]	SNVT_count_inc_f
PipeOutTemperature(M)	NP	PipeOutTemperature(M)	AI	xxx2017	nvoPipeOutTemp_[Device Name]	SNVT_count_inc_f
IduAddressLockSetting(M)	BP	IduAddressLockSetting(M)	BI	xxx2018	nvoIDUAddressLock_[Device Name]	SNVT_switch
IduAddressLockSetting(C)	BW	IduAddressLockSetting(C)	BO	xxx2019	nviIDUAddressLock_[Device Name]	SNVT_switch
ModeLockSetting(M)	BP	ModeLockSetting(M)	BI	xxx2020	nvoModeLock_[Device Name]	SNVT_switch
ModeLockSetting(C)	BW	ModeLockSetting(C)	BO	xxx2021	nviModeLock_[Device Name]	SNVT_switch
FanLockSetting(M)	BP	FanLockSetting(M)	BI	xxx2022	nvoFanLock_[Device Name]	SNVT_switch
FanLockSetting(C)	BW	FanLockSetting(C)	BO	xxx2023	nviFanLock_[Device Name]	SNVT_switch
TemperatureLockStatus(M)	BP	TemperatureLockStatus(M)	BI	xxx2024	nvoTempLock_[Device Name]	SNVT_switch
TemperatureLockStatus(C)	BW	TemperatureLockStatus(C)	BO	xxx2025	nviTempLock_[Device Name]	SNVT_switch
LowerSetTemperatureRangeSetting(M)	NP	LowerSetTemperatureRangeSetting(M)	AI	xxx2026	nvoLowerSetTempRange_[Device Name]	SNVT_count_inc_f
LowerSetTemperatureRangeSetting(C)	NW	LowerSetTemperatureRangeSetting(C)	AV	xxx2027	nviLowerSetTempRange_[Device Name]	SNVT_count_inc_f
UpperSetTemperatureRangeSetting(M)	NP	UpperSetTemperatureRangeSetting(M)	AI	xxx2028	nvoUpperSetTempRange_[Device Name]	SNVT_count_inc_f
UpperSetTemperatureRangeSetting(C)	NW	UpperSetTemperatureRangeSetting(C)	AV	xxx2029	nviUpperSetTempRange_[Device Name]	SNVT_count_inc_f
Pt2SetAutoSupportSetting(M)	BP	Pt2SetAutoSupportSetting(M)	BI	xxx2030	nvo2SetAuto_[Device Name]	SNVT_switch
CoolTemperatureUpperRangeSetting(M)	NP	CoolTemperatureUpperRangeSetting(M)	AI	xxx2031	nvoCoolUpperTemp_[Device Name]	SNVT_count_inc_f
CoolTemperatureUpperRangeSetting(C)	NW	CoolTemperatureUpperRangeSetting(C)	AV	xxx2032	nviCoolUpperTemp_[Device Name]	SNVT_count_inc_f
CoolTemperatureLowerRangeSetting(M)	NP	CoolTemperatureLowerRangeSetting(M)	AI	xxx2033	nvoCoolLowerTemp_[Device Name]	SNVT_count_inc_f
CoolTemperatureLowerRangeSetting(C)	NW	CoolTemperatureLowerRangeSetting(C)	AV	xxx2034	nviCoolLowerTemp_[Device Name]	SNVT_count_inc_f
HeatTemperatureUpperRangeSetting(M)	NP	HeatTemperatureUpperRangeSetting(M)	AI	xxx2035	nvoHeatUpperTemp_[Device Name]	SNVT_count_inc_f
HeatTemperatureUpperRangeSetting(C)	NW	HeatTemperatureUpperRangeSetting(C)	AV	xxx2036	nviHeatUpperTemp_[Device Name]	SNVT_count_inc_f
HeatTemperatureLowerRangeSetting(M)	NP	HeatTemperatureLowerRangeSetting(M)	AI	xxx2037	nvoHeatLowerTemp_[Device Name]	SNVT_count_inc_f
HeatTemperatureLowerRangeSetting(C)	NW	HeatTemperatureLowerRangeSetting(C)	AV	xxx2038	nviHeatLowerTemp_[Device Name]	SNVT_count_inc_f
CoolSetTemperatureSetting(M)	NP	CoolSetTemperatureSetting(M)	AI	xxx2039	nvoCoolSetTemp_[Device Name]	SNVT_count_inc_f
CoolSetTemperatureSetting(C)	NW	CoolSetTemperatureSetting(C)	AV	xxx2040	nviCoolSetTemp_[Device Name]	SNVT_count_inc_f
CoolSetTemperatureSettingUnocc(C)	NW	CoolSetTemperatureSettingUnocc(C)	AV	xxx2041	nviCoolSetTempUnocc_[Device Name]	SNVT_count_inc_f

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Indoor Unit Points - continued

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
HeatSetTemperatureSetting(M)	NP	HeatSetTemperatureSetting(M)	AI	xxx2042	nvoHeatSetTemp_[Device Name]	SNVT_count_inc_f
HeatSetTemperatureSetting(C)	NW	HeatSetTemperatureSetting(C)	AV	xxx2043	nviHeatSetTemp_[Device Name]	SNVT_count_inc_f
HeatSetTemperatureSettingUnocc(C)	NW	HeatSetTemperatureSettingUnocc(C)	AV	xxx2044	nviHeatSetTempUnocc_[Device Name]	SNVT_count_inc_f
OccupancyModeSetting(M)	BP	OccupancyModeSetting(M)	BI	xxx2045	nvoOcc_[Device Name]	SNVT_switch
OccupancyModeSetting(C)	BW	OccupancyModeSetting(C)	BO	xxx2046	nviOcc_[Device Name]	SNVT_switch
OverrideMode(M)	BP	OverrideMode(M)	BI	xxx2047	nvoOverride_[Device Name]	SNVT_switch
OccupancySensorInstalled(M)	BP	OccupancySensorInstalled(M)	BI	xxx2048	nvoOccSensorInstalled_[Device Name]	SNVT_switch
OccupancySensorStatus(M)	BP	OccupancySensorStatus(M)	BI	xxx2049	nvoOccSensor_[Device Name]	SNVT_switch
Pt2SetFunctionStatusSetting(M)	BP	Pt2SetFunctionStatusSetting(M)	BI	xxx2050	nvo2SetFuncSupport_[Device Name]	SNVT_switch
ThermoStatus(M)	BP	ThermoStatus(M)	BI	xxx2051	nvoThermoOnOff_[Device Name]	SNVT_switch
Deadband (M)	NP	Deadband (M)	AI	xxx2052	nvoDeadband_[Device Name]	SNVT_count_inc_f
AccumulatedPowerofIDU(M)	NP	AccumulatedPowerofIDU(M)	AI	xxx2053	nvoAccumPowerIDU_[Device Name]	SNVT_count_f
CurrentPowerofIDU(M)	NP	CurrentPowerofIDU(M)	AI	xxx2054	nvoCurrentPowerIDU_[Device Name]	SNVT_count_f
IduEev(M)	NP					
IduCapacity(M)	NP					
FilterSign(C)	BP	FilterSign(C)	BO	xxx2055	nviFilterSign_[Device Name]	SNVT_switch
ComfortablePowerSaving(M)	BP	ComfortablePowerSaving(M)	BI	xxx2056	nvoComfortablePowerSaving_[Device Name]	SNVT_switch
ComfortablePowerSaving(C)	BW	ComfortablePowerSaving(C)	BO	xxx2057	nviComfortablePowerSaving_[Device Name]	SNVT_switch
ComfortablePowerSavingStep(M)	EP	ComfortablePowerSavingStep(M)	AI	xxx2058	nvoComfortablePowerSavingStep_[Device Name]	SNVT_count
ComfortablePowerSavingStep(C)	EW	ComfortablePowerSavingStep(C)	AV	xxx2059	nviComfortablePowerSavingStep_[Device Name]	SNVT_count
HumanDetectionUnOccupiedTime(M)	EP	HumanDetectionUnOccupiedTime(M)	MI	xxx2060	nvoHumanDetectionUnOccupiedTime_[Device Name]	SNVT_count
HumanDetectionUnOccupiedTime(C)	EW	HumanDetectionUnOccupiedTime(C)	MO	xxx2061	nviHumanDetectionUnOccupiedTime_[Device Name]	SNVT_count
HumanDetectionIndirectWind(M)	BP	HumanDetectionIndirectWind(M)	BI	xxx2062	nvoHumanDetectionIndirectWind_[Device Name]	SNVT_switch
HumanDetectionIndirectWind(C)	BW	HumanDetectionIndirectWind(C)	BO	xxx2063	nviHumanDetectionIndirectWind_[Device Name]	SNVT_switch
HumanDetectionDirectWind(M)	BP	HumanDetectionDirectWind(M)	BI	xxx2064	nvoHumanDetectionDirectWind_[Device Name]	SNVT_switch
HumanDetectionDirectWind(C)	BW	HumanDetectionDirectWind(C)	BO	xxx2065	nviHumanDetectionDirectWind_[Device Name]	SNVT_switch
HumanDetectionLearnedPowerSaving(M)	BP	HumanDetectionLearnedPowerSaving(M)	BI	xxx2066	nvoHumanDetectionLearnedPowerSaving_[Device Name]	SNVT_switch
HumanDetectionLearnedPowerSaving(C)	BW	HumanDetectionLearnedPowerSaving(C)	BO	xxx2067	nviHumanDetectionLearnedPowerSaving_[Device Name]	SNVT_switch
HumanDetectionTemperaturePowerSaving(M)	BP	HumanDetectionTemperaturePowerSaving(M)	BI	xxx2068	nvoHumanDetectionTemperaturePowerSaving_[Device Name]	SNVT_switch
HumanDetectionTemperaturePowerSaving(C)	BW	HumanDetectionTemperaturePowerSaving(C)	BO	xxx2069	nviHumanDetectionTemperaturePowerSaving_[Device Name]	SNVT_switch
Humidity(M)	NP	Humidity(M)	AI	xxx2070	nvoHumidity_[Device Name]	SNVT_count
ComfortablePowerSavingAvailability(M)	BP	ComfortablePowerSavingAvailability(M)	BI	xxx2071	nvoComfortablePowerSavingAvailability_[Device Name]	SNVT_switch
HumanDetectionAvailability(M)	BP	HumanDetectionAvailability(M)	BI	xxx2072	nvoHumanDetectionAvailability_[Device Name]	SNVT_switch

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ERV Points

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
ErrorCode(M)	NP	ErrorCode(M)	AI	xxx3001	nvoERROR_[Device Name]	SNVT_count
HeaterSetting(M)	BP	HeaterSetting(M)	BI	xxx3002	nvoHeater_[Device Name]	SNVT_switch
HeaterSetting(C)	BW	HeaterSetting(C)	BO	xxx3003	nviHeater_[Device Name]	SNVT_switch
UserMode(M)	EP	UserMode(M)	MI	xxx3004	nvoUserMode_[Device Name]	SNVT_count
UserMode(C)	EW	UserMode(C)	MO	xxx3005	nviUserMode_[Device Name]	SNVT_count
LockSetting(M)	BP	LockSetting(M)	BI	xxx3006	nvoLock_[Device Name]	SNVT_switch
LockSetting(C)	BW	LockSetting(C)	BO	xxx3007	nviLock_[Device Name]	SNVT_switch
OperationSetting(M)	BP	OperationSetting(M)	BI	xxx3008	nvoOperation_[Device Name]	SNVT_switch
OperationSetting(C)	BW	OperationSetting(C)	BO	xxx3009	nviOperation_[Device Name]	SNVT_switch
FilterSign(M)	BP	FilterSign(M)	BI	xxx3010	nvoFilterSign_[Device Name]	SNVT_switch
FanSpeedSetting(M)	EP	FanSpeedSetting(M)	MI	xxx3011	nvoFanSpeed_[Device Name]	SNVT_count
FanSpeedSetting(C)	EW	FanSpeedSetting(C)	MO	xxx3012	nviFanSpeed_[Device Name]	SNVT_count
OperationModeSetting(M)	EP	OperationModeSetting(M)	MI	xxx3013	nvoMode_[Device Name]	SNVT_count
OperationModeSetting(C)	EW	OperationModeSetting(C)	MO	xxx3014	nviOperationMode_[Device Name]	SNVT_count
RoomTemperature(M)	NP	RoomTemperature(M)	AI	xxx3015	nvoRoomTemp_[Device Name]	SNVT_count_inc_f
FilterSignReset(C)	BP	FilterSignReset(C)	BO	xxx3016	nviFilterSignReset_[Device Name]	SNVT_switch

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AWHP Points

Niagara Points Name	Niagra Points Type	BACnet Objects			Lon Objects	
		BACnet Object Name	BACnet Object Type	BACnet Object ID in Decimal	SNVT Name	SNVT Type
ErrorCode(M)	NP	ErrorCode(M)	AI	xxx4001	nvoERROR_[Device Name]	SNVT_count
OperationSetting(M)	BP	OperationSetting(M)	BI	xxx4002	nvoOperation_[Device Name]	SNVT_switch
OperationSetting(C)	BW	OperationSetting(C)	BO	xxx4003	nviOperation_[Device Name]	SNVT_switch
Lock(M)	BP	Lock(M)	BI	xxx4004	nvoLock_[Device Name]	SNVT_switch
Lock(C)	BW	Lock(C)	BO	xxx4005	nviLock_[Device Name]	SNVT_switch
OperationModeSetting(M)	EP	OperationModeSetting(M)	MI	xxx4006	nvoOperationMode_[Device Name]	SNVT_count
OperationModeSetting(C)	EW	OperationModeSetting(C)	MO	xxx4007	nviOperationMode_[Device Name]	SNVT_count
AirWaterSetPointSetting(M)	NP	AirWaterSetPointSetting(M)	AI	xxx4008	nvoAirWaterSetPoint_[Device Name]	SNVT_count_inc_f
AirWaterSetPointSetting(C)	NW	AirWaterSetPointSetting(C)	AV	xxx4009	nviAirWaterSetPoint_[Device Name]	SNVT_count_inc_f
ControlModeSetting(M)	BP	ControlModeSetting(M)	BI	xxx4010	nvoControlMode_[Device Name]	SNVT_switch
HotWaterOperationStatus(M)	BP	HotWaterOperationStatus(M)	BI	xxx4011	nvoHotWaterOperation_[Device Name]	SNVT_switch
HotWaterOperationStatus(C)	BW	HotWaterOperationStatus(C)	BO	xxx4012	nviHotWaterOperation_[Device Name]	SNVT_switch
HotWaterSetPointSetting(M)	NP	HotWaterSetPointSetting(M)	AI	xxx4013	nvoHotWaterSetPoint_[Device Name]	SNVT_count_inc_f
HotWaterSetPointSetting(C)	NW	HotWaterSetPointSetting(C)	AV	xxx4014	nviHotWaterSetPoint_[Device Name]	SNVT_count_inc_f
RoomTemperature(M)	NP	RoomTemperature(M)	AI	xxx4015	nvoRoomTemperature_[Device Name]	SNVT_count_inc_f
WaterInletTemperature(M)	NP	WaterInletTemperature(M)	AI	xxx4016	nvoWaterInTemp_[Device Name]	SNVT_count_inc_f
WaterOutletTemperature(M)	NP	WaterOutletTemperature(M)	AI	xxx4017	nvoWaterOutTemp_[Device Name]	SNVT_count_inc_f
HotWaterTankTemperature(M)	NP	HotWaterTankTemperature(M)	AI	xxx4018	nvoHotWaterTankTemp_[Device Name]	SNVT_count_inc_f
SolarSourceTemperature(M)	NP	SolarSourceTemperature(M)	AI	xxx4019	nvoSolarSourceTemp_[Device Name]	SNVT_count_inc_f
AccumulatedPowerofIDU(M)	NP	AccumulatedPowerofIDU(M)	AI	xxx4020	nvoAccumPowerIDU_[Device Name]	SNVT_count_f
CurrentPowerofIDU(M)	NP	CurrentPowerofIDU(M)	AI	xxx4021	nvoCurrentPowerIDU_[Device Name]	SNVT_count_f