AcuityControls™

nLight®

OVERVIEW

The nLight Series 2 Gateway (nGWY2) provides time-based and system-wide backbone control of an nLight network and/or XPoint Wireless network as well as acts as the Ethernet interface for SensorView software. Consisting of a control unit and touch screen wall station, the nGWY2 allows for manual activation of system Profiles and provides system diagnostic information to the operator. SensorView is used to configure all available features of the nGWY2, including configuration of schedules and system Profiles.

FEATURES

- Discovers nLight/XPoint Wireless Devices (max 1500 or 400 depending on version)
- Provides System Time Clock
- Stores Time-Based and Input-Activated Profiles
- Manages Forwarding of Global Control Channels Across Bridge Devices and other Gateway
- On-Demand Profile Forwarding Between Gateways
- Communicates Over IP Local Area Network (LAN) with SensorView, Other nGWY2 Devices, XPoint Wireless Bridges, nBACnet, nADR, and nWiFi devices.
- Interfaces with SensorView Software
- Enables Configuration of Devices Through SensorView Software
- Enables Continuous Data Capture for Green Screen
- Remotely Upgradeable
- Touch Screen Control User Interface

nLight Gateway
Time Clock, System Controller, and Ethernet Interface

Title 24 System Component

SPECIFICATIONS

CONTROL UNIT

Size:	4.90" H x 4.90" W x 1.05" D (12.45cm x 12.54cm x 2.67cm)
Mounting:	4" x 4" Square Box
Ports:	2 nLight Bus Ports (RJ-45), 1 Touch Screen Interface Port (RJ-45), 1 Ethernet Port (RJ-45, 10/100/1000 BaseT), 2 Power Terminal Inputs
Input Current/ Voltage:	160 mA @ 15-28 VDC

TOUCH SCREEN

Size:	5.06" H x 3.50" W x 0.69" D (12.85 cm x 8.89 cm x 1.75 cm)
Mounting:	Single-Gang Low Voltage Switch Box or Ring
Mounting Height:	60 in (152 cm)
Ports:	2 nLight Bus Ports (RJ-45)
Input Current/ Voltage:	60 mA @ 15-28 VDC

POWER SUPPLY

Size:	3.00" H x 2.25" W x 1.88" D (7.62 cm x 5.72 cm x 4.78 cm) (not including ½" chase nipple)
Mounting:	1/2" Knockout
Operating Voltage:	FCS PS10: 120-277 VAC; PS 150 347: 347 VAC
Output Power:	10W~416mA@24VDC (FCS PS10), ~250 mA@ 15 VDC (FCS PS10) (note ~150 mA @ 15 VDC for dual PS 150 347 configuration)
Wires:	18 AWG (2) & 20 AWG (2)

Warranty

Five-year limited warranty. Complete warranty terms located at:
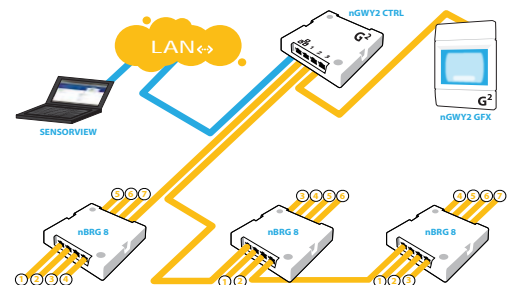www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

ORDERING INFORMATION

| nGWY2			Example: nGWY2 347 KIT
nGWY2			
Series	**Max Devices**	**Voltage**	**Power Supply Kit**
nGWY2	[blank] 1500 Max L400 400 Max	[blank] 120-277 VAC 347 347 VAC	KIT Kit w/ Control Unit, Touch Screen, and Power Supply

WIRING (DO NOT WIRE HOT)

The nGWY2 CTRL and nGWY2 GFX units are powered via a FCS PS10 power supply wired via each unit's power terminal connectors. Note: For 347 VAC powering, dual PS 150 347 power supplies are provided. Be sure to connect the red power output wires from the PS 150 347 supplies together and then wire to both the nGWY2 GFX and nGWY2 CTRL units.

120-277 VAC Wiring

347 VAC Wiring
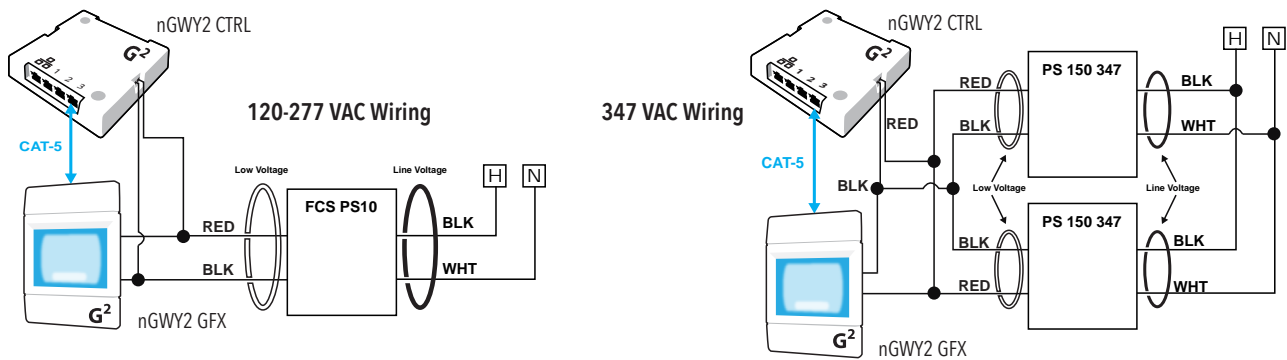
SYSTEM ARCHITECTURE

nLight and XPoint Wireless networked luminaires and controls can work together in an nLight system backbone. The nLight system backbone (through one or more nGWY2 devices) provides both nLight and XPoint Wireless devices with schedule management and software programming interface. The backbone also provides support for system-wide controls such as master override switches, automated demand response, and BACnet integration. In this architecture, the XPoint Wireless Bridge presents itself as a bridge device with one or multple virtual bridge ports that support up to 250 total associated XPoint Wireless devices per bridge. Virtual bridge ports, which are associated with XPoint Wireless luminaires and devices via SensorView, provide a simple interface for organizing device locations and configuring zone behavior. When combining nLight and XPoint Wireless under nGWY2, the main rules of the nLight backbone will apply: up to 1500 total devices per nGWY2 (nLight or XPoint Wireless), and up to 128 global channels for the entire system.
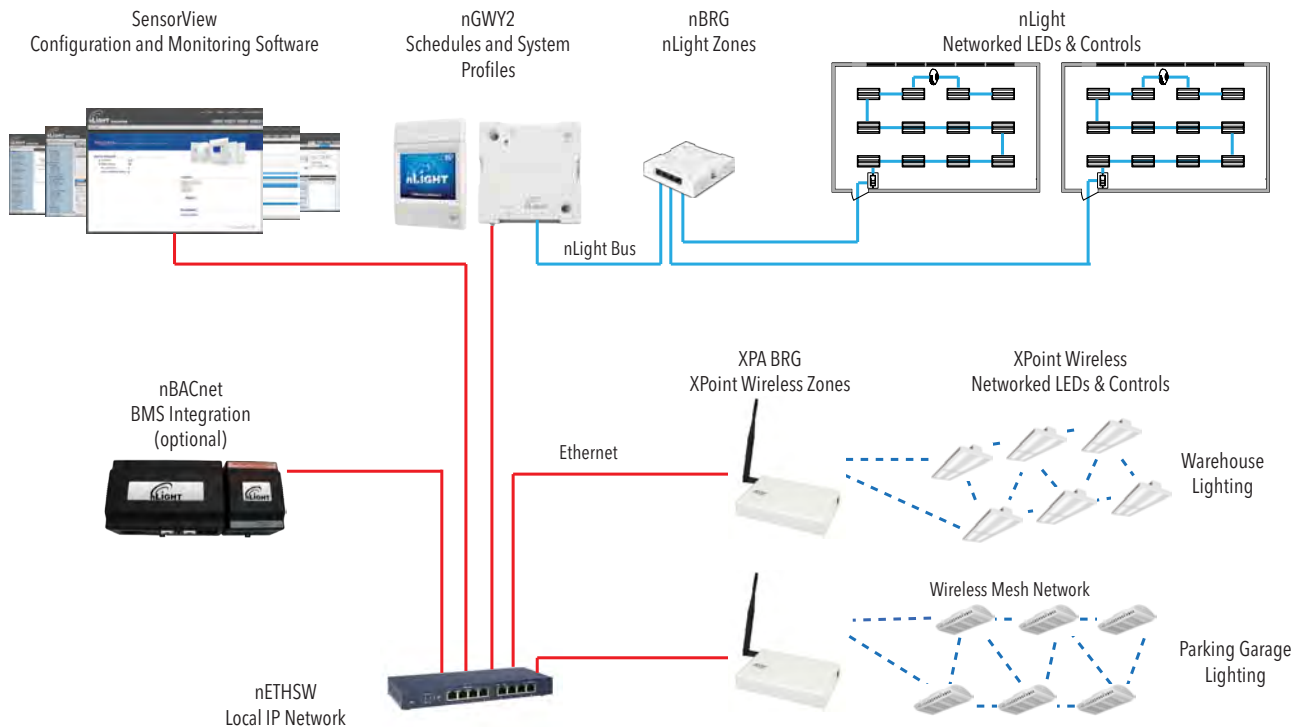
DESIGN / OPERATION NOTES

- XPoint Wireless Bridges must be on same LAN as nGWY2, recommended to use same subnet.
- A Gateway Touch Screen (nGWY2 GFX) can not be substituted for a Graphic WallPod (nPOD GFX), and vice versa.
- nLight Gateway is required for the following system capabilities: nADR, nBACnet, time based control, on-demand profiles, global channel forwarding, Virtual Wallpods, and continuous data collection into Green Screen.

nGWY2 - TN-707-01