OVERVIEW

nLight ECLYPSE extends the power of nLight to deliver the next level of lighting control. This BTL listed B-BC device leverages native BACnet™/IP and WiFi to let you seamlessly integrate your lighting control system with your building management systems. With its robust embedded web server, nLight ECLYPSE hosts edge applications like SiteView™ Energy and Space Utilization, and generates actionable, visual data with ENVYSION user interface.

FEATURES

- BACnet Testing Laboratories (BTL) listed as a BACnet Building Controller (B-BC)
- Communicates over IP Local Area Network (LAN) with SensorView, Distech ECLYPSE, XPoint Wireless bridges and nADR devices
- View and manage the nLight network with nLight Explorer web interface which supports ECLYPSE
- SiteView Energy™ solution allows monitoring of building energy consumption and provides an
 informative dashboard demonstrating energy savings and environmental impact.
- Enhanced security provided by both:
 - HTTPS Server
 - U.S. Government security standard of Federal Information Processing Standard (FIPS) Publication 140-2, Level 1, Inside (Validation Certificate Pending)
- Browser-based nLight ECLYPSE and ENVYSION configuration using HTML5 technology
- Wi-Fi client, access point and hot spot capabilities
- Discovers nLight and Xpoint Wireless devices
- Provides system time-clock including astronomical time-clock capabilities.
- Stores time-based and input active profiles
- Manages forwarding of global control channels and on-demand profiles across other nLight ECLYPSE controllers (Note: Max of 128 global channels per system, even with multiple nLight ECLYPSE controllers)
- Remotely configurable and upgradable
- Supports 750 total nLight/XPoint Wireless.
- Optional NEMA Type 1 enclosure nLight ECLYPSE unit ships factory mounted and wired to integrated power supply
- Optional touchscreen, model nGWY2 GFX separate power supply and CAT5 cable included. Field mounting required.

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.













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nLight ECLYPSE

IP & Building Management
Interface for nLight Networks





NECY	NECY Example: NECY MVOLT BAC EN													
Series		Voltage		BACnet		Visualization Software		SiteView Energy Metering						
										Enclosure		Touchscreen Kit		
nECY	nLight ECLYPSE	24 MVOLT 347	24 VAC/DC ¹ 120-277 VAC ² 347 VAC ²	[blank] BAC	Not Enabled BACnet/IP & MS/TP Enabled	[blank] SVS	Not Enabled Envysion ³	[blank] SVEA	Not Enabled SiteView Energy Application ⁴	[blank] ENC	No enclosure NEMA Type 1 metal enclosure	[blank] GFXK	No touchscreen Touchscreen interface (model nGWY2 GFX, mounted separately), PS 150 power supply, CAT5 cable ⁵	

ACCESSORIES

nECY ENC NEMA 1 Enclosure and pre-mounted 120-277VAC input, 24VDC output (Max 50W) power supply

Notes

- Not available with ENC or GFXK options.
 - 2. Requires ENC option.
- Requires BACnet option.
- 4. Requires SVS & BACnet option.
- 5. If 347 voltage option is selected, includes PS150 347.

SPECIFICATIONS

Control Module

Size: 4.74" H x 3.57" W x 2.31" D

(12.03 cm x 9.07 cm x 5.86 cm)

Mounting: DIN rail mounted

nLight ECLYPSE Assembly Size: 4.74" H x 14.76" W x 2.43" D

(12.03 cm x 37.5 cm x 6.16 cm)

Ports: Ethernet: (2) switched RJ-45 Ethernet ports

USB Connections: 2 x USB 2.0 ports RS-485 Serial Communications: Screw terminals (Used for either BACnet MS/TP or

SVEA Energy Meter Connection)

Subnet: RJ-45

Real Time Clock (RTC): Real Time Clock with rechargeable battery.

Supports SNTP network time synchronization

RTC Battery: 20 hours charge time, 20 days discharge

time. Up to 500 charge / discharge cycles

Enclosure: FR/ABS UL94-V0 flammability rating Environmental: Operating Temperature: 32°F to 122°F

(0 to 50°C)

Storage Temperature: -22°F to 158°F

(-30 to 70°C)

Relative Humidity: 0 to 90% non-condensing

Ingress Protection Rating: IP20

Security: FIPS Publication 140-2, Level 1 Inside

(Validation Certificate Pending)

nLight Network Interface Module

Size: 4.74" H x 3.20" W x 2.31" D

(12.03 cm x 8.12 cm x 5.86 cm)

Mounting: DIN rail mounted

Ports: 3 nLight bus ports (RJ-45)

Power Supply Module (24V)

Size: 24V: 4.74" H x 2.85" W x 2.31" D

(12.03 cm x 7.24 cm x 5.86 cm) Operating Voltage: $24V: 24VAC/DC; \pm 15\%$; Class 2

Output Voltage,

Rated Current & Power: 24V: 18VDC regulated, 0-1.6A, 30W max

Enclosure

Type: NEMA 1 rated surface mount screw cover

Size: 14.25"H x 14.25"W x 4.00"D (36.20cm x

36.20cm x 10.16cm)

Rating: UL 2043 (Plenum) Rated

COMMUNICATION

Ethernet Connection Speed: 10/100 Mbps

Addressing: IPv4 or Hostname

BACnet Profile: BACnet Building Controller (B-BC)

BACnet Listing: BTL, B-BC

BACnet Interconnectivity: BBMD forwarding capabilities

BACnet/IP to BACnet MS/TP routing

BACnet Transport Layer: MS/TP & IP (optional)

Web Server Protocol: HTML5
Web Server Application Interface: REST API

${\bf Supported\ BACnet\ MS/TP\ and\ Modbus\ RTU\ Connectivity:}$

- BACnet MS/TP OR Modbus RTU 1 × RS-485 serial communications ports
- Each RS-485 port supports one communication protocol at a time
- RS-485 Wiring 1-pair + Common/shield
- RS-485 EOL Resistor Built-in
- RS-485 Baud Rates 9600, 19200, 38400, or 76800 bps
- RS-485 Addressing Controller's Web Configuration Interface

Supported Wireless Connectivity:

- Wireless Adapter USB Port Connection
- Wi-Fi Communication Protocol IEEE 802.11b/g/n
- Wi-Fi Network Types Client, Access Point, Hotspot

SYSTEM ARCHITECTURE

The nLight ECLYPSE serves as the backbone for nLight and XPoint Wireless networked luminaires and controls. The nLight ECLYPSE provides both nLight and XPoint Wireless devices with schedule management and remote software programming via SensorView web-based software. The backbone also provides support for system-wide controls such as master override switches, automated demand response, and BACnet integration. One nLight ECLYPSE is capable of handling up to 750 total devices and up to 128 global channels for the entire network. The nLight ECLYPSE is compatible with other Distech ECLYPSE products offering a full suite of BAS capabilities and also host Edge applications such as SiteView Energy.

