



CityEdge 5/7-Pin External Networked Lighting Controller

Secure, proven, two-way lighting control for any deployment

CityEdge 5/7-Pin External Networked Lighting Controller (NLC) is embedded with Itron communications and provides reliable, secure, two-way control and monitoring for outdoor street and area lighting. LED Luminaire life can easily be extended with the dimming control feature and in turn allow users to improve lumen output over time. These NLC's employ the patented Itron Relay Assisted Triac (RAT) switching technique, to reliably switch reactive lighting loads year after year. Used in conjunction with Itron's Industrial IoT (IIoT) network, cities and utilities can now easily add control to existing or upgraded lights, gaining access to a proven, resilient and scalable solution and application ecosystem across millions of network endpoints.

CityEdge NLCs are integrated with Itron communications and leverage CityEdge Platform, the Central Management System (CMS) front end software to provide the best-in-class solution for efficient luminaire operation. The robust network capabilities and use of open standards such as IPv6 allow the network to support additional smart city applications such as traffic-light control, parking automation and other networked sensors for enhanced living.

Itron CityEdge includes multi-layer security policy enforcement and monitoring with end-to-end encryption (AES-128/256) and access control to ensure protection of

critical infrastructure and data. Deployment options include full product licensing or CMS as a service.

Key Benefits of the External NLC:

- » Proven quality and reliability with over 30 years of lighting control experience
- » Proven Itron networking technology - Over 90 million connected devices
- » Up to 65% energy savings when deployed in conjunction with LED lights
- » Up to 40% operational savings through control and monitoring
- » Robust multi-layer security with end-to-end encryption and full PKI (X.509) infrastructure
- » Redundant, auto-healing, auto configuring network using open standards such as IPv6 and IEEE 802.15.4g
- » Over-the-air configuration and firmware upgrades
- » Economic scalability from small pilots to metropolitan or country-wide deployments
- » Energy metrology up to 0.5% accuracy, with per day, per hour, or per minute records and robust utility billing integration
- » Infrared Meter Calibration Interface
- » Compatible when plugged into NEMA 5 & 7-pin sockets



Technical Specifications

Metering Accuracy	0.5% Energy Accuracy per ANSI C136.50
Metering Range	105 – 305VAC, 10A RMS
Turn ON Light Level	16 or 35 Lux (1.5 or 3.25 fc), other levels available on request. Can also be set by schedule.
Housing Material	UV Stabilized Polycarbonate
Enclosure Sealing	IP66
Dimensions	H 115mm x D 87mm; Weight 267g
Switch Ratio (OFF:ON)	Typically 1.5:1; however, configurable to your requirements.
Warranty	10 years
Rated Load	1000W / 1800 VA
Maximum Load Current	10 Amps
Operating Voltage	105 – 305VAC (50/60Hz)
Operating Temperature Range	-40°C to +70° C (-40°F to +158°F)
Circuit Power Consumption	<2Watts Average Power @120 VAC
Tilt	Optional built-in Tilt Sensor
Manufacturing Standard	EN ISO 9001:2015
Product Conforms with Standards	BS5972, ANSI C136.10, ANSI C136.41, UL773/CSA C22.2, EMC EN55015, EN61547 EN61000-3-2, EN61000-3-3, EN61347
Regulatory Compliance	RoHS, FCC, CE
Options for controlling LED driver for dimming	DALI, 0-10V, Universal Auto-Detect
GPS Sensor	Optional
Itron Networking Specification	Frequency- Hopping Spread Spectrum up to 300kb/s mesh networking Automatic data routing with self-configuration, auto-healing & redundant uplinks, IPv6 transport. Full application & link-layer security with full PKI, AES-128 and -256, and embedded firewall. Wi-SUN Communication Standard
MOV Protection	420J, 20kV/10kA; Exceeds Extreme Surge requirements of ANSI C136.10

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