NOVACCESS SA
RUE GALILÉE 6 – 1400 YVERDON-LES-BAINS – SWITZERLAND

NOVALIGHT OUTDOOR GATEWAY 2G/3G/ETH

NL-OG-023NCE

NOVACOM NETWORK GATEWAY

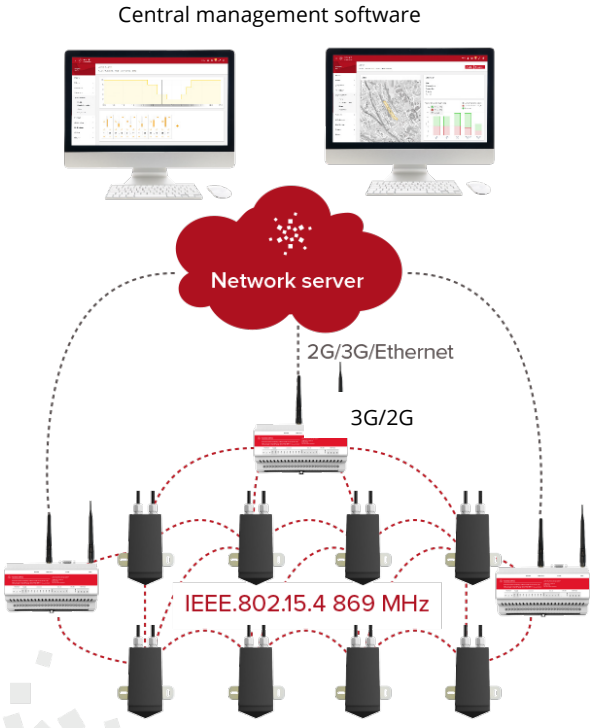
NovaLight Outdoor Gateway is a pole-mount network gateway connecting lighting controllers to a centralized management software using cellular interfaces.

EN BREF

The aim of the NovaLight Outdoor Gateway is the generate the Smart-City NovaCom wireless network to connect lighting controllers to a centralized management software. The NovaCom network is a mesh network allowing each network node to exchange data with his neighbor and to extend the network radio coverage. The NovaLight Outdoor Gateway is installed on a pole/mast.

To ensure the lasting quality and security of the product on the long term, the NovaLight Outdoor Gateway can be updated directly from the Cloud software or from a computer connected with serial link.

The NovaLight Gateway Outdoor integrates a NovaLight Gateway, a 230VAC/24VDC power supply and a circuit-breaker.



KEY ELEMENTS

- IIoT wireless mesh network gateway based on IEEE 802.15.4 (NovaCom) – 869MHz
- 3G robust connectivity with 2G backup
- Local configuration using secured serial interface based on DB9 RS-232
- IP66
- Key locks
- AES-256 encryption for communication with the central management system.
- AES-128 encryption in the wireless mesh network and AES-256 for the data.
- 230VAC Power supply with switch
- Remote firmware update

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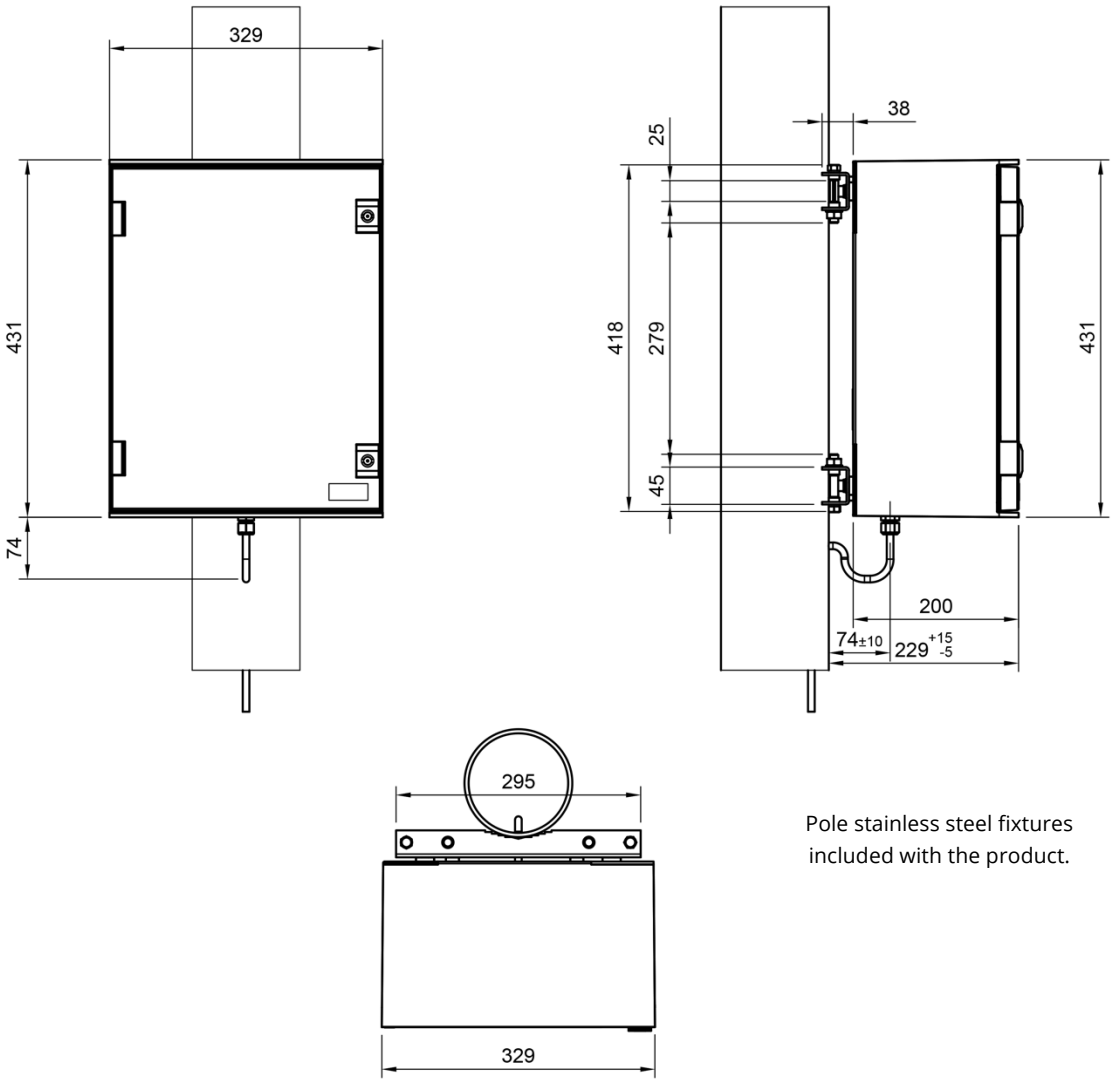
TECHNICAL CHARACTERISTICS

MECHANICAL

PHYSICAL PARAMETERS	VALUE	*UNIT*
Height	500	*[mm]*
Width	329	*[mm]*
Depth	229	*[mm]*
Weight	8	*[kg]*



Pole stainless steel fixtures included with the product.

CABLES

A 3-pole cable of 5 meters is pre-mounted on the product. The cable has L (Phase, brown), N (Neutral, blue) and Protecting Earth (PE, Yellow/Green) signals.

ELECTRICAL

The power supply of the NovaLight Outdoor Gateway is 230VAC.

ELECTRICAL PARAMETERS	MIN	TYP.	MAX	*UNIT*
VAC Input voltage	90	220	264	*[V]*
VAC Input frequency	47	50	63	*[Hz]*
Input current			0.63	*[A]*
Consumed power	2	3	5	*[W]*

COMMUNICATIONS

See the NovaLight Gateway 2G/3G/ETH datasheet (NL-G-023NCE).

ENVIRONMENTAL

ENVIRONMENTAL PARAMETERS	MIN	TYP.	MAX	*UNIT*
Ambiant temperature	-30		+75	*[°C]*
Casing protection		IP66		

SERIAL INTERFACE

PORT 1 RS-232

This port is located on the DB9 connector without the NovaLight Outdoor Gateway cabinet and allows to configure the product from a local computer with the Novaccess Device Center software installed. The interface works asynchronous in mode 115200/8N1.

PARAMETERS	VALUES	*UNIT*
Interface	RS-232	
Baudrate	115 200	*[Bauds]*
Data width	8	*[bits]*
Parity	No	
Stop bit	1	*[bit]*
Signaling	No	

COMMISSIONING

The commissioning of this product requires an access on the central management software or on the NovaLight mobile application, available for both iOS and Android. For this product to connect the remote-control platform, it needs first to be registered on the software. Once connected on the software, the NovaLight Gateway will generate the NovaCom Smart City wireless mesh network.

Download on the App Store

Application « novalightapp »

Google Play

Application « novalight »

GENERAL INFORMATION

PRODUCT REFERENCES

PRODUCTS	REFERENCES
NovaLight Outdoor Gateway 2G/3G	NL-OG-023NCE
NovaLight Gateway 2G/3G/ETH	NL-G-023NCE
Indoor mesh antenna	MA-020
Indoor cellular antenna	CA-030
Alimentation 230VAC/24VDC DIN	HDR-15-24
USB-to-serial configuration cable	U209-000-R

DELIVERY CONTENT

The NovaLight Outdoor Gateway is shipped with the pole-mount fixture and stainless-steel ligatures. Within the NovaLight Outdoor Gateway will be a NovaLight Gateway hardware, cellular and wireless mesh antennas, a 230VAC/24VDC power supply and a circuit breaker.

CONFORMITY

Marc	CE (RED)
EMC	EN 301 489-3
SRD	EN 300 220-1/-2
Security	EN 60950-1
Cellular	EN 301 511, EN 301 908-1/2

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REVISION HISTORY

REVISION	DATE	DESCRIPTION
R01	May 19 2021	Initial publication

CONDITIONS