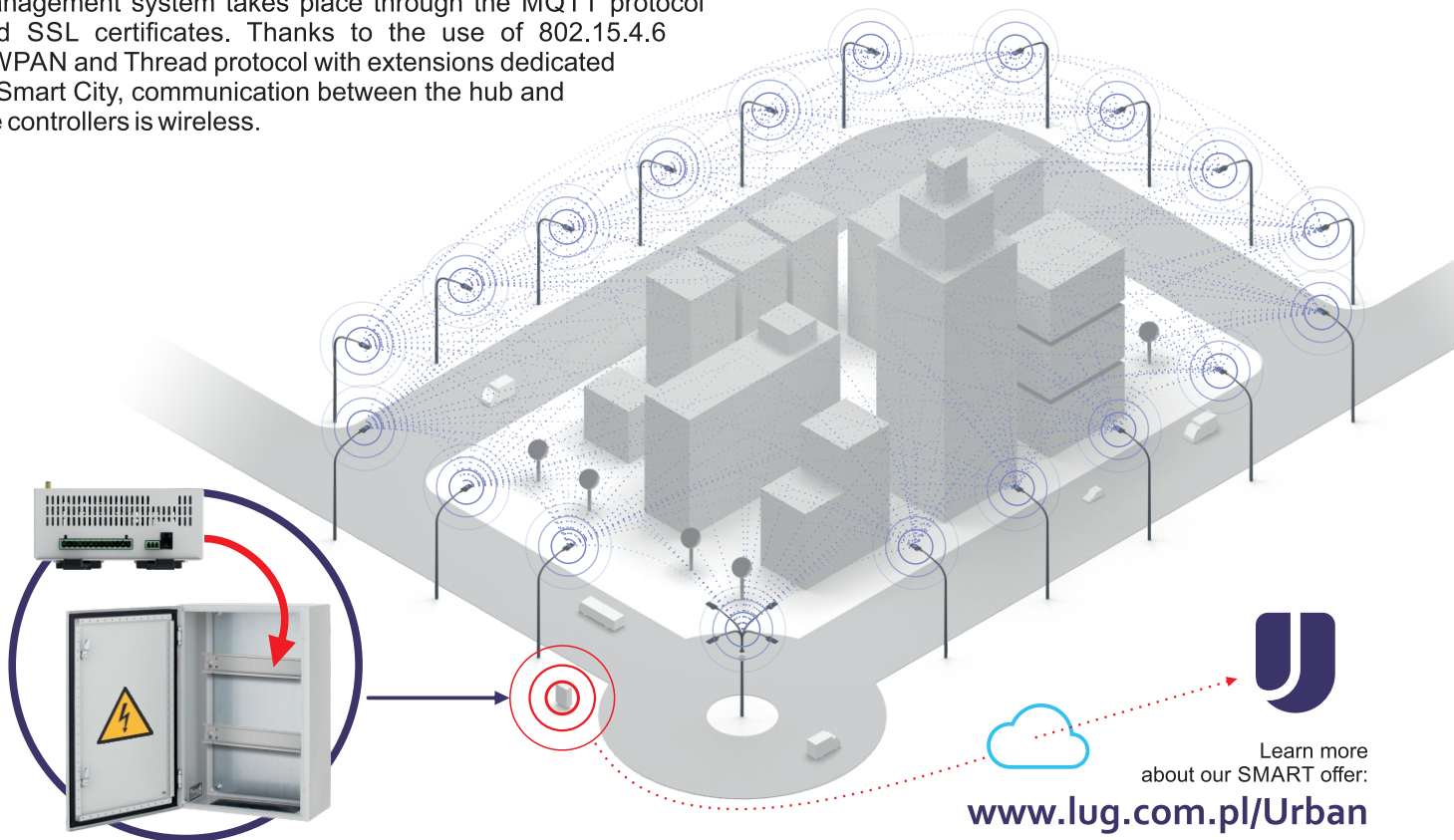




HUBIoT-2 is a hub (also called a gateway or a router) which allows the BIOTcloud servers to communicate with Thread devices such as iBLOC or eBLOC via the Internet (through cell phone network or LAN). HUBIoT-2 enables the connection of secondary devices via the RS-485 interface. This could be, for instance, an iNET-3P power supply parameter meter which monitors the 3-phase power supply line for the lighting.



HUBIoT-2 serves as a bridge which connects the management system installed in the cloud with controllers and sensors located at various sites. Communication between the hub and the management system takes place through the MQTT protocol and SSL certificates. Thanks to the use of 802.15.4.6 loWPAN and Thread protocol with extensions dedicated to Smart City, communication between the hub and the controllers is wireless.



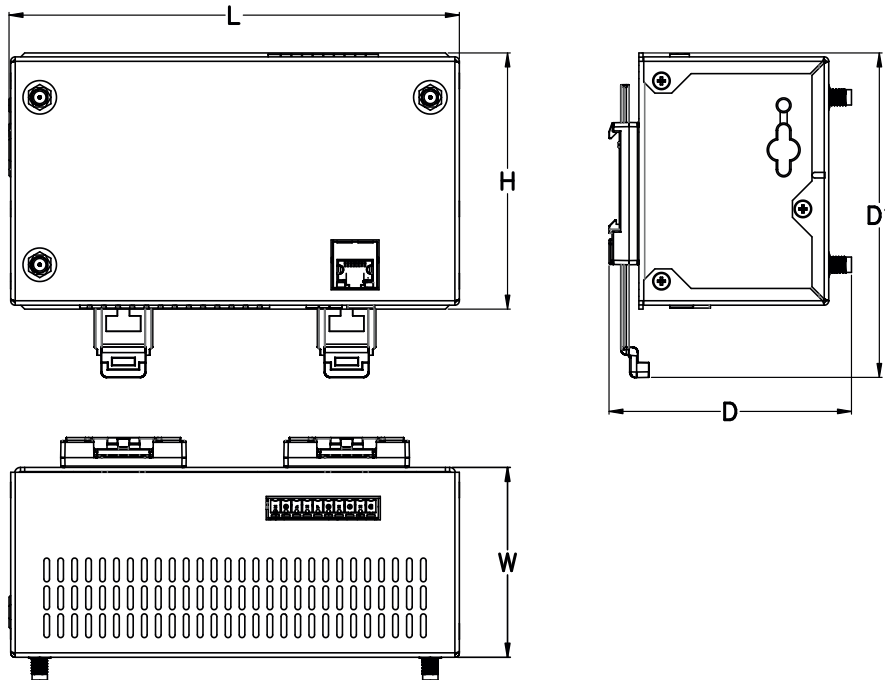
GENERAL DATA

- 2G/3G/4G radio module
- 2.4 GHz radio module with THREAD communication (radio-mesh)
- Ethernet 10/100Base-T port
- RS-485 port
- 4 binary control inputs
- 4 relay outputs
- Can be assembled on a DIN TS-35 track
- Dedicated to the BIOTcloud lighting control system
- Lifetime of up to 100 000 h
- 5 year warranty

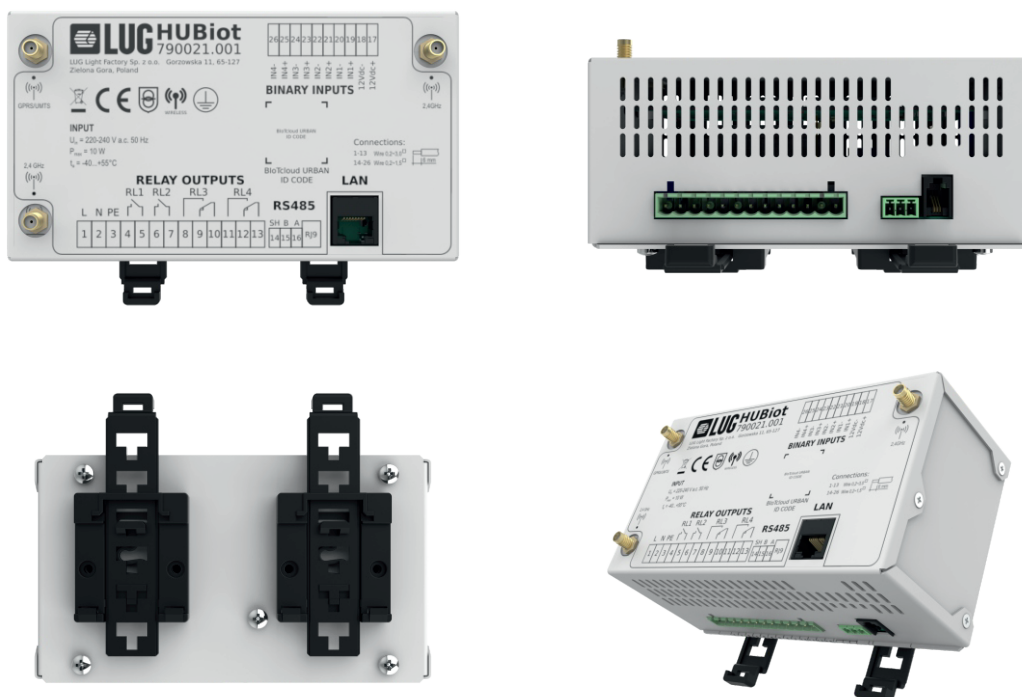
AVAILABLE VERSIONS

Code	Version	Mounting	Power	Dimensions [mm]			
				L	W	H	D1
790022.001	EU	on DIN TS-35 rail	220-240V 50Hz	160	70	90	88 115
790022.101	WW	on DIN TS-35 rail	220-240V 50Hz	160	70	90	88 115

DIMENSIONS



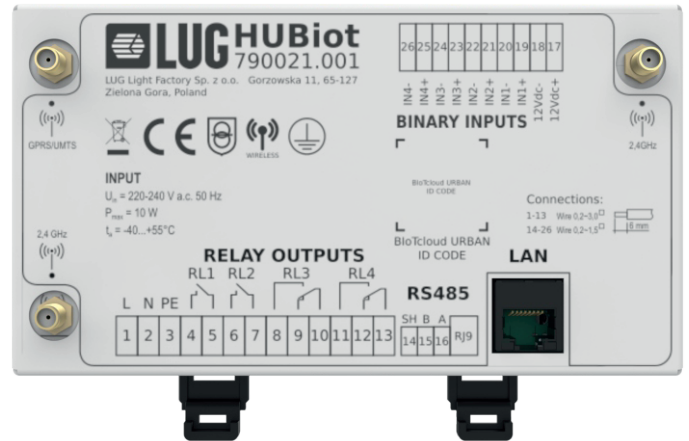
ADDITIONAL PHOTOS



Up-to-date product info and General Warranty Terms available on our website www.luglightfactory.com

DESCRIPTION OF MODULE CONNECTORS

1	L	Power supply voltage phase cable 230 VAC
2	N	Power supply voltage neutral cable 230 VAC
3	PE	Protective conductor
4	RL1 NO	Relay no. 1 normally open contact
5	RL1 CC	Relay no. 1 common contact
6	RL2 NO	Relay no. 2 normally open contact
7	RL2 CC	Relay no. 2 common contact
8	RL3 NO	Relay no. 3 normally open contact
9	RL3 NC	Relay no. 3 normally closed contact
10	RL3 CC	Relay no. 3 common contact
11	RL4 NO	Relay no. 4 normally open contact
12	RL4 NC	Relay no. 4 normally closed contact
13	RL4 CC	Relay no. 4 common contact
14	SH	Rs485 communication screen
15	B	Rs485 signal B for communication
16	A	Rs485 signal A for communication
17	12Vdc+	Power supply +12 Vds < 20 mA
18	12Vdc-	Supply earth voltage 12 Vdc
19	IN1+	First binary input +
20	IN1-	First binary input -
21	IN2+	Second binary input +
22	IN2-	Second binary input -
23	IN3+	Third binary input +
24	IN3-	Third binary input -
25	IN4+	Fourth binary input +
26	IN4-	Fourth binary input -



DEVICE PARAMETERS

POWER SUPPLY PARAMETERS	AC supply voltage [U_{in}]: 220-240 V Supply frequency [f_{in}]: 50 Hz Input power [P_{in}]: 10 W
OUTPUT PARAMETERS	Max. relay load current [I_{RL}]: 3 A Max. relay load voltage [U_{RL}]: 250 V Min. no. of relay operating cycles [N_{RL}]: 10 000
INPUT PARAMETERS	Input type: binary, polarised, optoisolated Max. input voltage [U_{max}]: 12 V Threshold voltage [U_{Th}]: 4 V Max. input current [I_{max}]: 10 mA
ENVIRONMENTAL PARAMETERS	Ambient temperature [T_{amb}]: -40 ... +55°C Storage temperature [T_{store}]: -40 ... +85°C Relative humidity [h]: 10 ... 90% Degree of water and dust proof: IP20
OTHER	Radio frequency protocol: IEEE 802.15.4, 6LoWPAN, Thread Frequency band: 2,4 GHz Net weight: 1250 g Lifetime ($T_a = 70^\circ\text{C}$): 100 000 h Warranty: 5 years