Build-in AC EV Charger for public poles

Integrated EV Charger with Edge enables for quick installation of EV charges into the public poles.

The EV Charger is possible to equip with single Type 2 Socket, doube Type 2 Socket or in combination with socket for230V.
The charging option for the Type 2 Socket is up to 22kW but with possibility to set up through software to limit the charging power for example to (7kW, 11kW,...).
It is also possible to remotely control the EV Charger and turn it ON/OFF based on your needs.

The EV Charger also offers additional options such as:

Possibility of RFID reader which will be compatible with 4byte RFID cards.

Possibility of billing system integration through additional device which will allow you to connect through OCPP protocol into your local billing system.

BASIC TECHNICAL PARAMETERS:

MATERIAL: UV-resistant ABS/PC plastic
ADJUSTABLE POWER: 1.4 - 22 kW or (2 x 1.4 - 22 kW)
CHARGING TYPE: AC (IEC 61851-1)
ADJUSTABLE CURRENT: 6A - 32A (in increments of 1A)
PROTECTION AGAINST THEFT: Socket lock with guaranteed disconnection in the event of a power failure
PROTECTION: Current protector Type A-EV (30mA AC, 6mA DC)
NOMINAL VOLTAGE: 230V (single phase) / 400V (three phase)
DIMENSIONS: Diameter of the 1st stage of the mast 159 mm or 168 mm, hole according to your specification
NETWORKS SUPPORTED: TN-S / TN-C-S / IT
MECHANICAL RESISTANCE: IK10
DEGREE OF PROTECTION: IP44
STATUS DISPLAY: LED indication on the sockets

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Hardware Devices

EV CHARGER UNIT

Features

- Top-class safety and user-friendly
- Switching elements are dimensioned for more than 150% of the rated continuous load
- The control electronic performs self-diagnostics and provide error codes
- Rising temperatures or overheating in the device or CEE socket detection
- Switching elements fused by heat or defective transistor switches
- Overvoltage or undervoltage detection, leakage current detection
- Setting function for maximum charging current
- Compatibility of the new version of TN-S (most of Europe) and IT (Norway, Italy, Ukraine) networks
- Use of high-quality conductor, TÜV certification
- The solid aluminum housing of the electronics with IP65 protection is able to survive all kind of weather

SOCKET TYPE 2

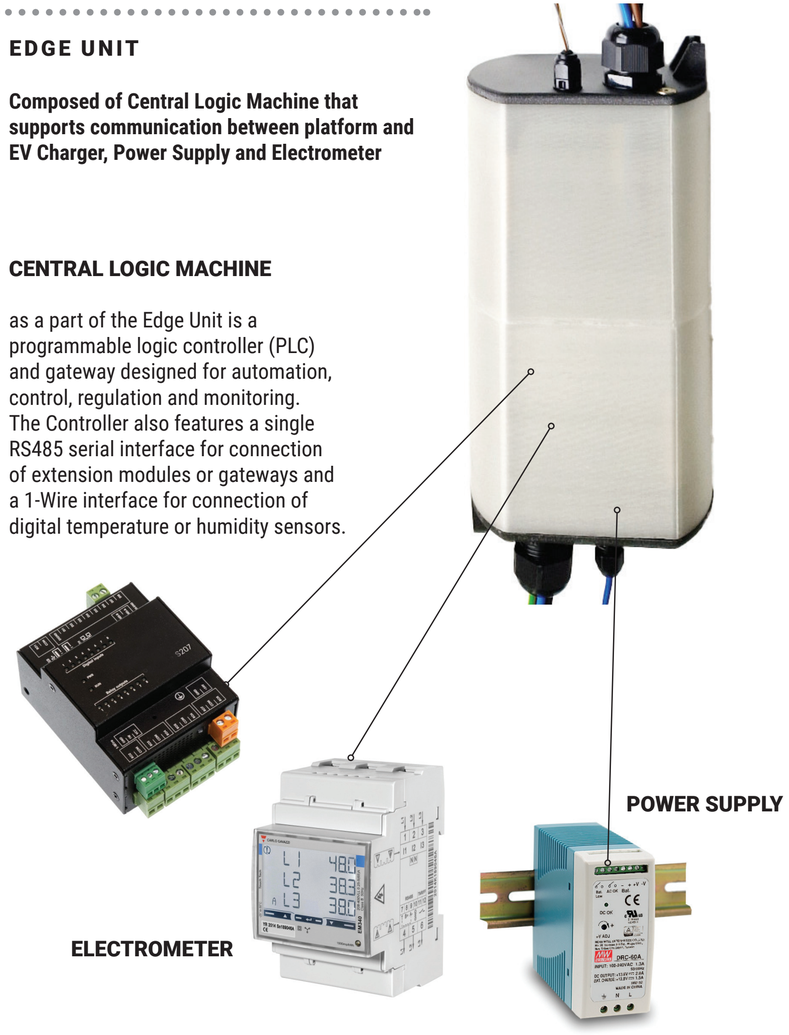
- Mode 2 charger conforms to the provisions and requirements of IEC62196-2 2016.
- Type 2 socket 32a and 16a match with locking device.
- Have one or two PTC (PT1000) thermistor (can match with NTC or Temperature control switch).
- Our ev socket with beautiful appearance and prevention cap, which can be installed on the left side, the right side or the front of it.
- Reliable material, flame retardant, pressure proof, wear-resisting, vimpact resistance, high oil proof.
- Excellent protection performance, protection grade achieved IP55 (working condition)

EDGE UNIT

Composed of Central Logic Machine that supports communication between platform and EV Charger, Power Supply and Electrometer

CENTRAL LOGIC MACHINE

as a part of the Edge Unit is a programmable logic controller (PLC) and gateway designed for automation, control, regulation and monitoring. The Controller also features a single RS485 serial interface for connection of extension modules or gateways and a 1-Wire interface for connection of digital temperature or humidity sensors.



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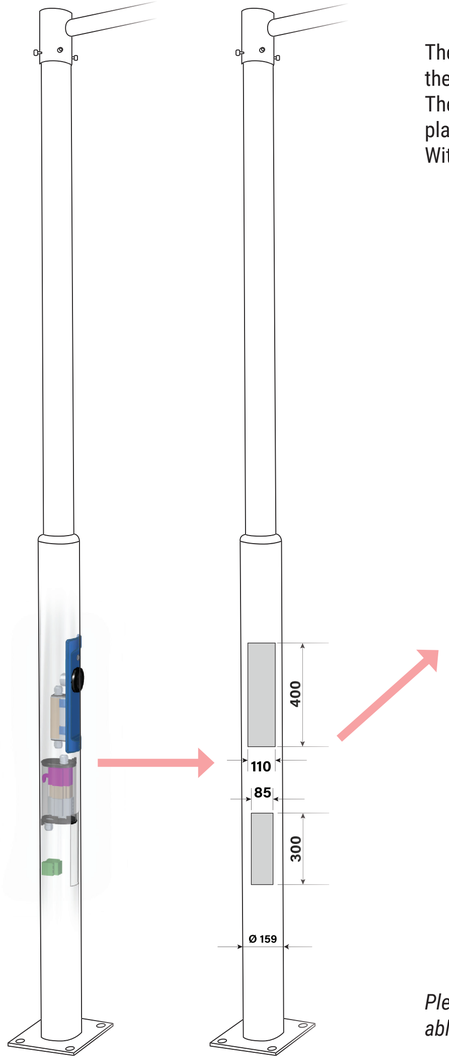
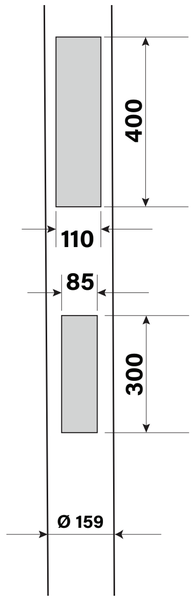
Public Pole Requirements



The minimum diameter of the pole in the lower part must be 159 mm
The pole needs additional opening for placement of the EV Charger
With dimmensions 400x110mm.



Please be aware that if necessery we are able to provide the poles as well.

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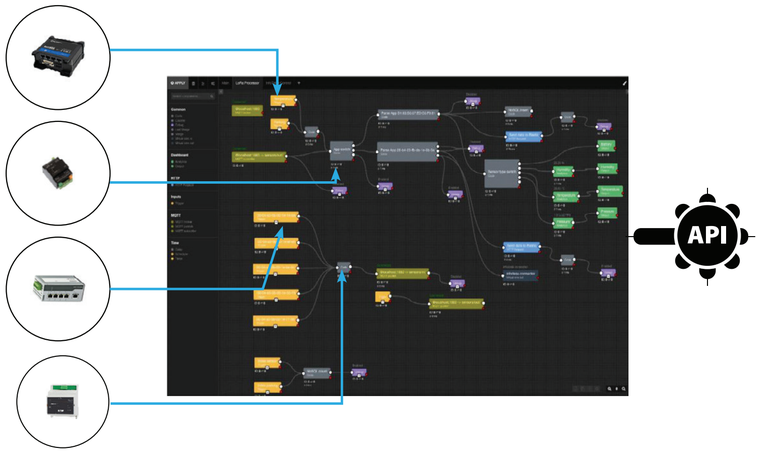
Integration on Central Unit

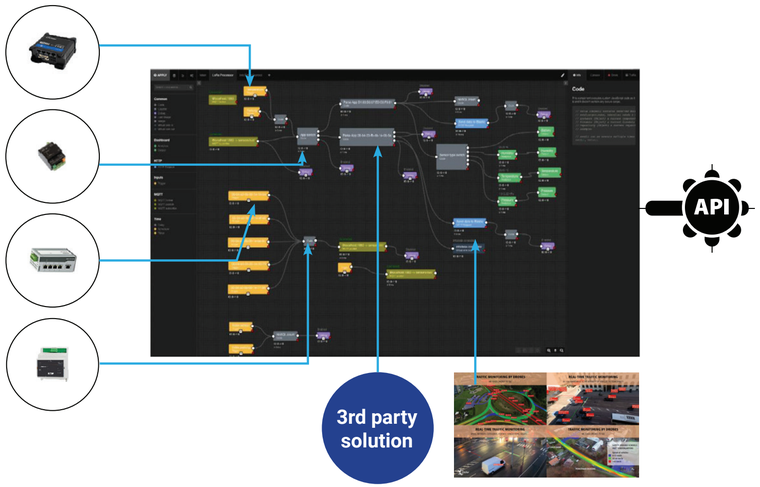
SW INTERFACE FOR DEVICE MONITORING

Integration of Central unit for each Pole. Helps connect standalone devices and applications.



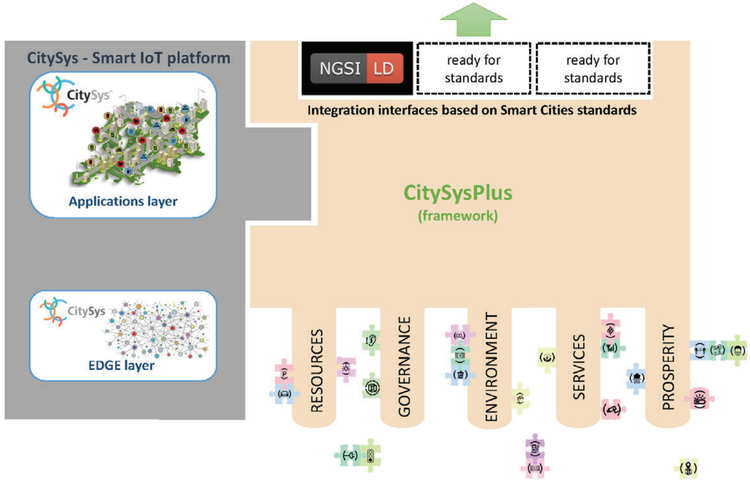
INTEGRATION OF 3RD PARTY SOLUTIONS

Integration on middleware where you integrate via one interface for all central units placed in poles. Helps integrate application to each other with data and functionality.



DEVICE INTEGRATION AND DATA MANAGEMENT

CitySys application layer level (for monitoring and management of individual Poles with the possibility of SW management). We are able to prepare hybrid combination of the above integrations.



Individual larger or smaller advanced IoT solutions that lack a standardized interface for integration into Smart City ecosystems

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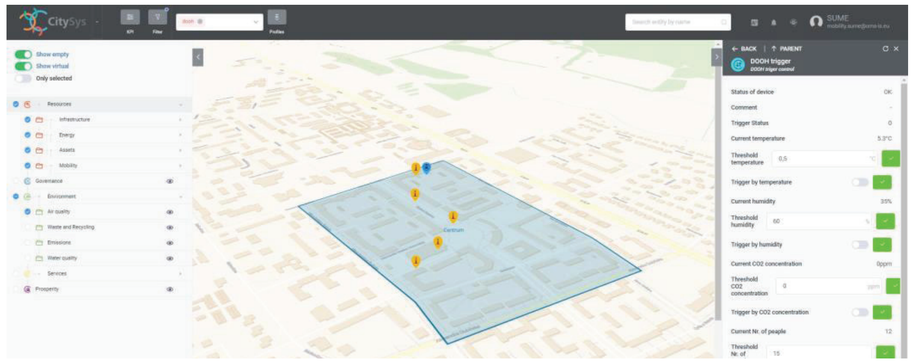
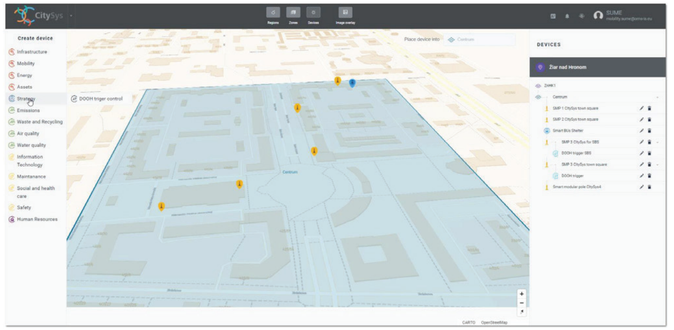
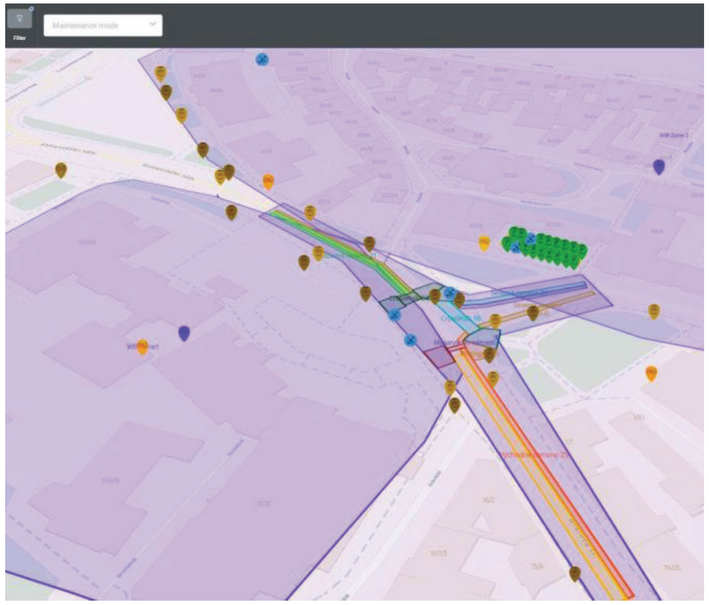
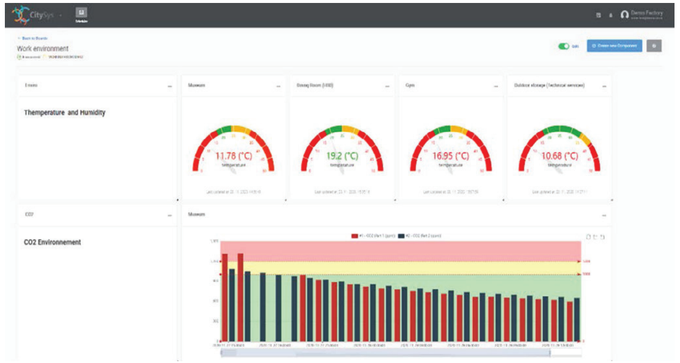
Platform



- Visualization on map layer The level of the central logical unit individually for each pole
- Effective monitoring and remote maintenance via CitySys platform
- Prepare for future interoperability scenarios In case of interconnected devices, you have an immediate response and direct fast communication between them
- Cloud Solution effective for operating costs and independent solution for the preferred type of cloud







3rd party applications

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