OCPP to Modbus TCP & RTU Server Gateway

Integrate Electric Vehicles Charging points based on OCPP 1.6 with any Modbus RTU or TCP controller or connect the chargers to an external OCPP Central System (CS) and monitor them via Modbus. This gateway offers 2 type of OCPP functionalities configurable in MAPS tool:

- BMS Central System: The gateway makes accessible advanced operations of the Charging points from a Modbus PLC, making the BMS the Central System of the EV charging operation.

- External OCPP central system: The gateway acts as a bridge between an external OCPP CS and the OCPP chargers, allowing to monitor metering and status information of the connected chargers.

FEATURES

Support for OCPP 1.6 JSON
Support for Modbus RTU and TCP
Flexible Modbus configuration (Baudrate, Data type)
OCPP Scan to search Chargers in the network
Fix Modbus register map
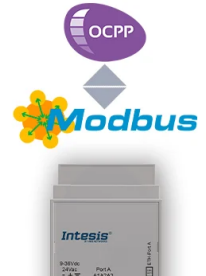OCPP operations supported in BMS CS mode:
-Authorize, RemoteStart/Stop Transaction, Start/StopTransaction, Local list management,
HeartBeat, MeterValues, Reservation and Smart Charging Operations
OCPP readings supported in External CS mode:
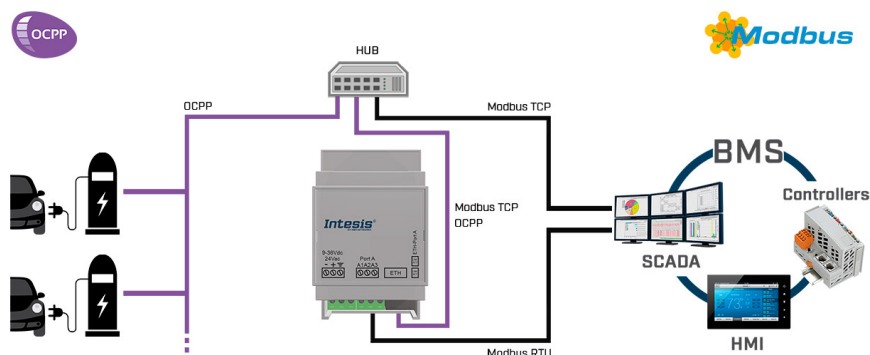- Charger info, availability and MeterValues
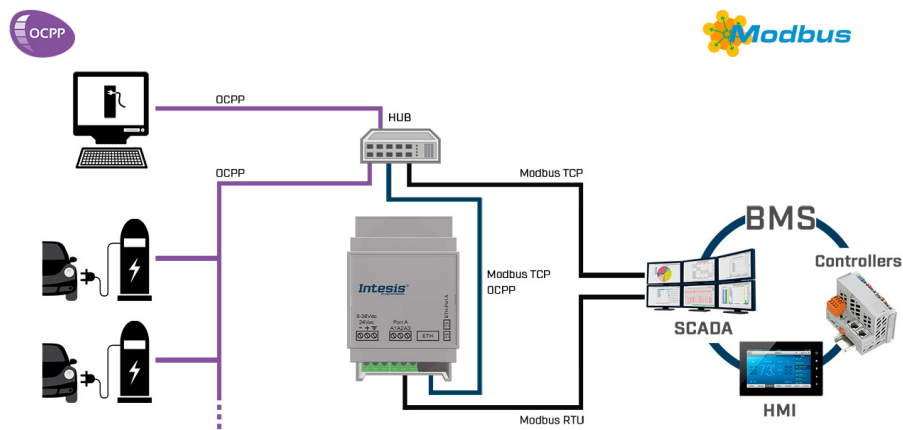Reduced dimensions, compact housing
UL certified

Use Case

Integration of OCPP EV Charging points into a Modbus installation.

Gateway acting as an OCPP bridge between an external OCPP Central System and OCPP chargers.

Description

This bidirectional gateway provides a straightforward and fast integration thanks to its unique onboard features.

Thanks to its support for the OCPP 1.6 standard and its basic operations, it guarantees a seamless integration with any standard Modbus PLC or controller to work as a stand-alone Central System or connected to an External OCPP Central system.

The configuration is carried out using the Intesis MAPS software. Which allows you to define your own settings for the device. Also, it will be able to download all the available project templates or to import any created/exported project template on your computer.

Introducing our OCPP to Modbus gateway at the ABB e-mobility solution center

Technical Documentation

User Manual	General information about this product	Download
Installation Manual	Learn how to install the device in your project	Download
Datasheet	Find all the specifications around this product	Download
Configuration Manual	Step by step configuration for easy integration into any Modbus controller	Download
Video how to integrate	Learn how to configure your device following this video tutorial	Watch
EC Declaration of Conformity	Check the product certification	Download

KC Certification	Check the product certification KC Certification	Download

$\rightarrow$ Click here to ask for a product upgrade and increase the gateway's capacity

How to integrate OCPP into your BMS through Modbus TCP&RTU

Programming Tools

Intesis MAPS	Get access to download the configuration software tool	Download
Intesis MAPS User Manual for Modbus	General information about Intesis MAPS for Modbus projects	Download
eLearning course	Learn the secrets of Intesis MAPS	Enroll now

Smart Charging Operations for the Intesis OCPP to Modbus TCP&RTU Gateway

nmercial Documentation

Intesis Brochure	Know more about the Intesis current available products	Download

File	Version	Size	Read online

ORDER CODE:

INMBSOCP0010100	Gateway to connect OCPP1.6 devices with Modbus RTU&TCP networks - 1 charger with 7 connectors
INMBSOCP0200100	Gateway to connect OCPP1.6 devices with Modbus RTU&TCP networks - Up to 20 charger with 7 connectors each

INCLUDED COMPONENTS:

Intesis Gateway.

Installation Manual.

(Power supply not included).

Warranty: 36 months.