

EV charging station block diagram using Creasol DomBusEVSE module working with Domoticz home automation system



Operating mode:

- OFF:** charging disabled
- SOLAR:** use only energy from renewable plant (power from grid = 0)
- 25%:** max 25% of available power from grid
- 50%:** max 50% of power from grid
- 75%:** max 75% of power from grid
- 100%:** use all available power from grid
- MANAGED:** current value set by domotic controller (automation script for custom charging)

Connect an energy meter to the main circuit breaker, to get all information about power/energy usage/return (imported and exported energy)

Build your smart wallbox, single phase, 8kW!
All parts are available in our store.

DomBusEVSE module can be connected to a Domoticz home automation system to control wallbox from smartphone and web browser, display power/energy charts, ...
CP is the control pilot, a +/-12V signal used to communicate with the vehicle.
EV Relays is connected to the 40A contactor coil, to enable mains power supply to the vehicle.
RL2 is an additional general purpose relay
EV Supply is used to sense power supply on the vehicle.

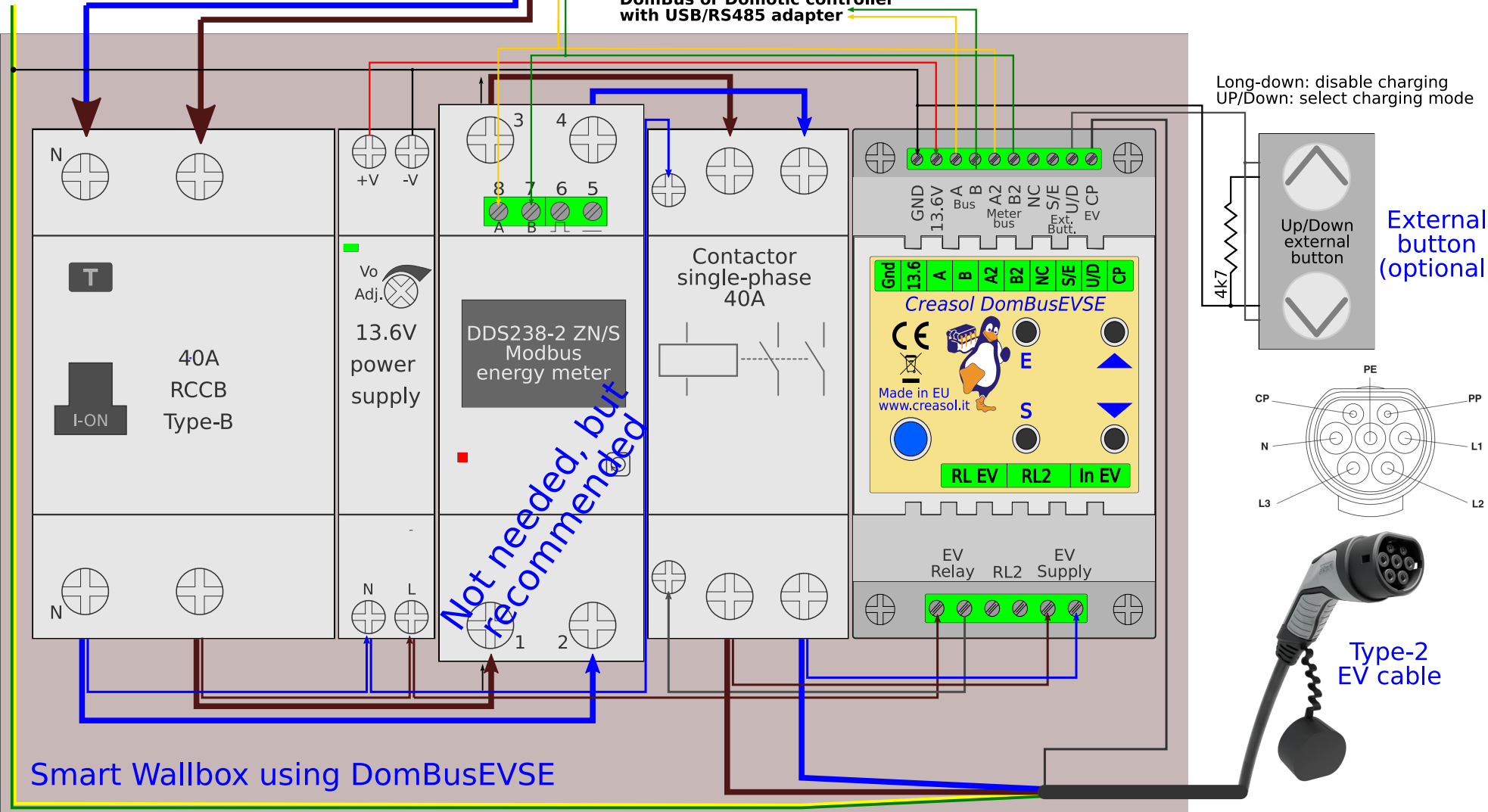
Twisted pair or alarm cable to connect energy meters

DomBus or Domotic controller with USB/RS485 adapter

Not needed, but recommended

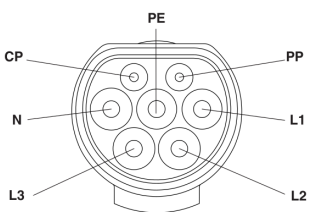
Not needed, but recommended

Main switchbox



Long-down: disable charging
 UP/Down: select charging mode

External button (optional)



Type-2 EV cable

Smart Wallbox using DomBusEVSE