

# ENERGY METER MOUNTING GUIDE

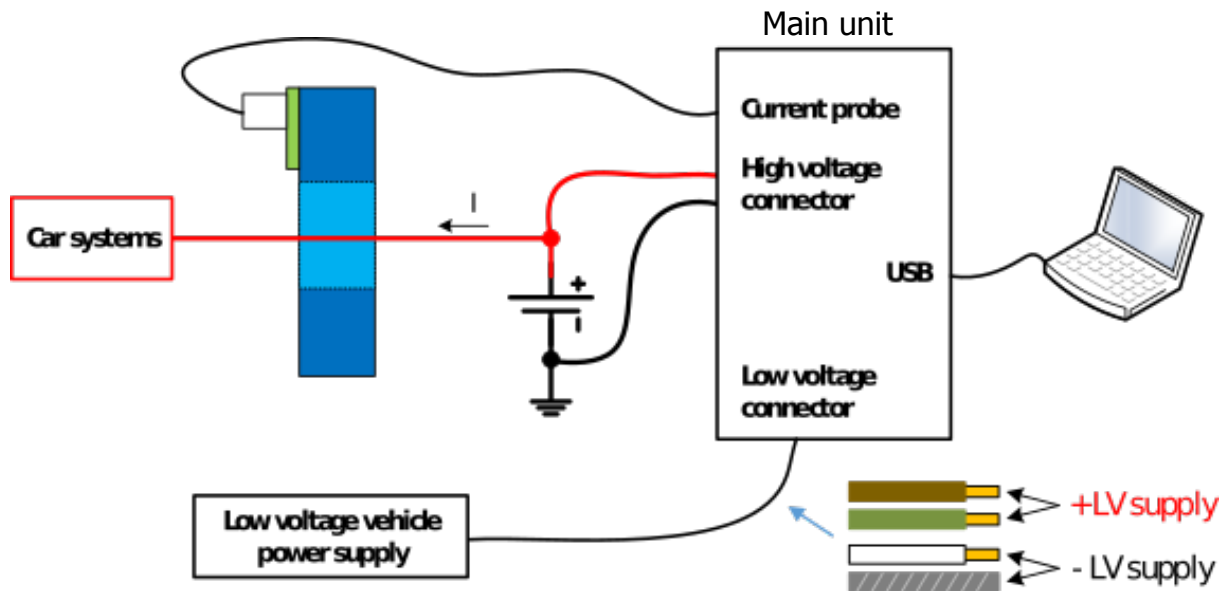
## FOR ELECTRIC VEHICLES

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At FS East 2016, the used energy meter will be the same type used at Formula Student Czech Republic. For further questions, contact the Electrical Scrutineering Leader, Laszlo TRESZKAI.



**CONNECTION DIAGRAM**

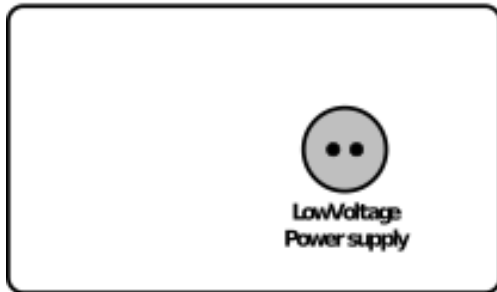
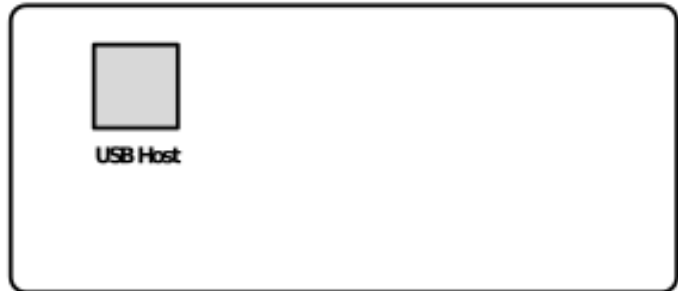
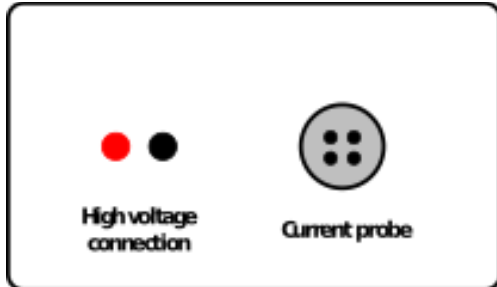


**MAIN UNIT**

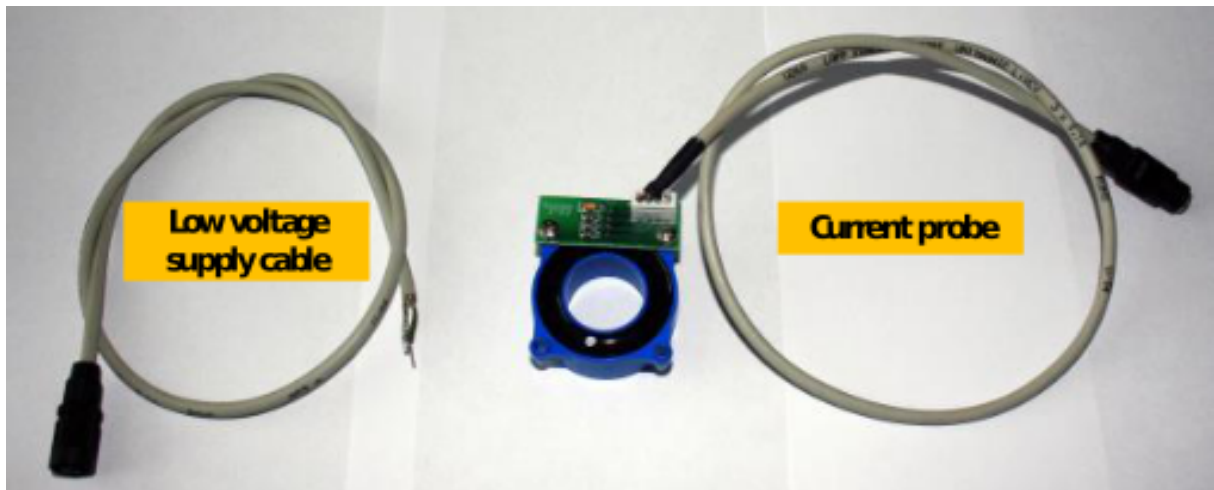




## CONNECTORS ON MAIN UNIT



## ACCESSORIES





## TECHNICAL SPECIFICATION

- Dimensions of main unit: 120 x 68 x 45 mm
- Current measurement:  $\pm 600$  A, accuracy:  $\pm 500$  mA
- Voltage measurement: 0-600 V, accuracy:  $\pm 500$  mV
- Power limit: 80 kW (500ms moving average or 100ms continuous violation)
- Voltage limit: 600 V (500ms moving average or 100ms continuous violation)
- Low voltage power supply: 9-36 VDC
- Low voltage power consumption: less than 0.5 W
- Isolation between high voltage and low voltage contacts: more than 1 G $\Omega$

## IMPORTANT NOTES

The serial number of the main unit must match with the current probe.

The orientation of the sensors must be in accordance with the connection diagram.

## HISTORY OF CHANGES IN THIS DOCUMENT

v1	18 July 2016	Initial version
v2	19 July 2016	Added picture of main unit with connectors

