HORIBA

ELECTRIC VEHICLE CHARGE MONITOR

EVCM-ONE

Measure Electrical Recharge Energy
Following WLTP EV Range Tests with Ease

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The **EVCM-ONE** (Electric Vehicle Charge Monitor) is a product that helps customers fulfill the recharged energy measurement portion of the WLTP range test (outlined in UNR154), which requires the measurement of eAC (Total Recharged Energy) prior to the EV charger. The **EVCM-ONE's** simple connection solutions, test automation integration, and automated report generation make it the perfect solution for customers wishing to simplify the EV range test.

The measurement on the **EVCM-ONE** can be started and stopped manually by the operator or via an AK command from the test automation system. To manually stop the measurement, the user must log in to the **EVCM-ONE** user interface first to ensure system security during data logging. Upon completion of the test, the **EVCM-ONE** can generate a .pdf report outlining all of the data from the test, as well as a .csv file containing all of the data for customers to use in their own post-processing systems.

The live data readout provides the user with a view of:

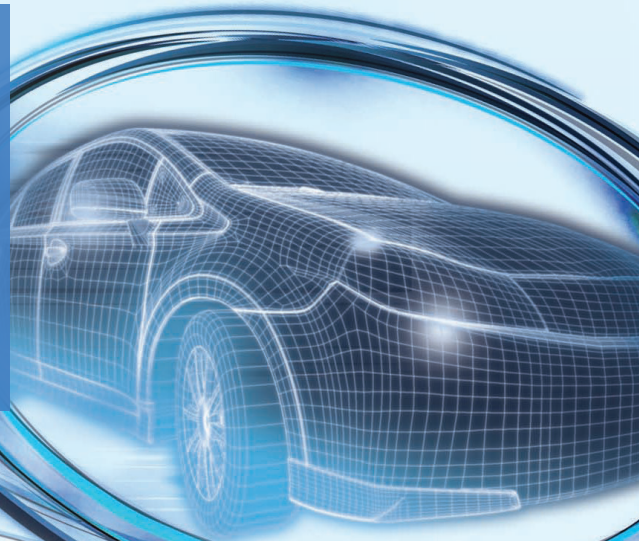
- Voltage per phase
- Current per phase
- Power consumption per phase, along with total consumption

The **EVCM-ONE** is fully integrable with **HORIBA STARS VETS** and **STARS Enterprise**, as well as having the ability to work as a standalone system.

The **EVCM-ONE** is **CE certified** for customer peace of mind.

Features:

- WLTP & Class 1 IEC 62053-21 compliant
- Electrical energy (Wh) accuracy of ±0.5%
- Compatible with all EV chargers up to 63A supply
- Charge event report generation
- Fully integrated to STARS VETS
- User lockable charging for added security



Requirement	Specification
EV Meter Power Connector	3 Phase 63 Amp 5 Pole Connector
Normal Input Voltage for EV Meter	100 …. 400VAC
Input Voltage Range for EV Meter	±20 %
Input Current for EV Meter	≤ 63 A
Frequency Range for EV Meter	45 … 65 Hz
System Power Connector	Via L2
Normal Input Voltage for System Power	100 …. 240VAC
Input Voltage Range for System Power	±20 %
Frequency Range for EV Meter	45 … 65 Hz
Mains Input Current for EV Meter	≤ 13 A
EV Meter Power Capturing	WAGO 2857-570/024-001
EV Meter Power Capture Technique	WAGO 855-501/150-000 Current and Voltage Tap
EV Meter Accuracy	0.5% error (EN 61869-2)
Touch Screen with Built in PC	DFI KS156P 15.6” TouchScreen PC
Connections / Connectors	LAN connector for TCP/IP AK USB connector to download data
Product Safety	Mains Isolator E-STOP Power ON LED
Product Weight	54KG Approx.
Product Size	967x603x341

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