



NMi EV Charging Services

Addressing Legal Metrology in the EV Charging World

The rise of electric vehicles has created a growing demand for charging infrastructure, both in residential areas and public spaces. But have you considered the critical aspects of legal metrology in this evolving landscape? NMI is here to help answer your questions and provide solutions.

The EV Challenge

EV charging systems are relatively new, and many countries lack well-established metrological testing and certification control systems. Despite the increased number of charging devices, specific legislation and control systems remain limited. However, change is on the horizon.



Key Question



Energy Measurement

What methods are applied, and do they meet the requirements for custody transfer?



Metrological Control

Is there a robust system in place for equipment testing and certification?



Want to learn more?

Interested in the examination of an EV charging system? We are here to answer your questions. Contact us at nmi@nmi.nl



Spearheaded by CENELEC TC13 WG03, **prEN 50732**, slated as **Europe's future harmonised standard under the MID**, focuses on measuring energy and time in stationary conductive DC and AC supply equipment, vital for electric vehicles.

While we await the mid-2024 anticipated draft version of **prEN 50732**, NMI recommends utilising **OIML G22**, a global guide for Electric Vehicle Supply Equipment (EVSE), alongside **German Eichrecht + individual metering standards (EN 50470-3/-4 and IEC)** to meet current needs.

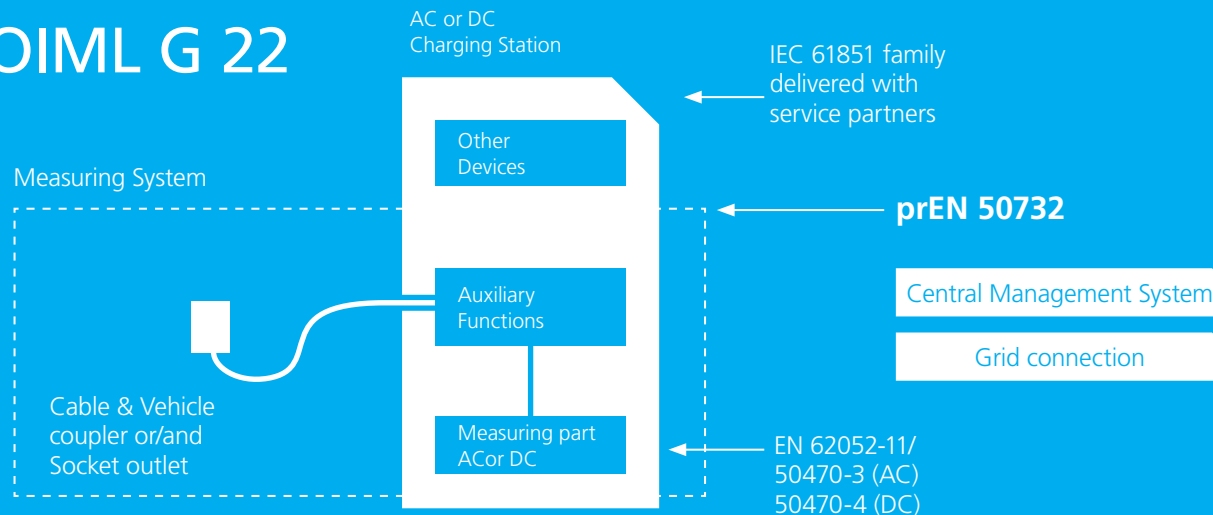
This approach ensures compliance and readiness for forthcoming harmonised standards, offering solutions.



Cutting Edge Standards

NMI has been heavily involved in developing prEN 50732 and OIML G 22 standards, ensuring your devices align with upcoming industry benchmarks.

OIML G 22



Confirm quality, safety, and reliability of electric vehicle supply equipment (EVSE)

NMI provides testing, training, and certification to help ensure compliance for solutions that take EVSE to German, European, and broader international markets.

Training / Education Services:

- Regulatory Landscape
- European and German market positioning

Testing Services following:

- Certificates based on German legal requirements REA 6A / PTB-A 50.7
- German document VDE-AR-E 2418-3-100
- Separate or integrated AC electricity meters: EN 50470-1/3 or EN 62052-11/A11 with EN 50470-3
- Separate or integrated DC electricity meters: EN 50470-4 and IEC 62053-41 (together with IEC EN 62052-11/A11)