**FLIR Releases Rugged, Compact, Easy to Use** **Test Adapters and Kits for Commercial and Domestic EV Charging Stations**

*High-Performance EV Charging Station Test Adapters and Kits Now Available to Meet Growing Global Demand for Testing in Accordance with International Standards*

**Mai 13th, 2025** – [FLIR](https://www.flir.com/), a Teledyne Technologies company, today unveiled a series of robust, handheld Electrical Vehicle (EV) Charger testing tools and test kits and test kits to help verify the safety and reliability of EV charging stations. The user-friendly new products also serve to expedite the installation and maintenance of public and private EV chargers and diagnose and troubleshoot EV supply equipment (EVSE).

Charging station operators, service/maintenance providers, and automotive equipment manufacturers share common pain points, including the need to: maintain EV charging station safety by checking protective earth (PE) and electrical wiring integrity; verify the maximum current output of EV chargers; and ensure compliance with CAT II 300V and IEC 61851-1 EV safety standards.

FLIR therefore set about developing its new EV45-NACS EV charger test tool with NACS plug and Type 1 converter and EV45-T2 EV charger test adapter with Type 2 plug and Type 1 converter. Both are also available in kit form (EV-KIT-1 and EV-KIT-2). Each kit sees the addition of a FLIR DM286 digital multimeter with IGM® infrared guided measurement technology.

**EV45-NACS**

The FLIR EV45-NACS features a built-in NACS plug for NACS charging stations or AC wall connectors. It is also compatible with SAE J1772 Type 1 stations and comes with a compact converter. Compliant with CAT II 300V and IEC 61851-1 EV safety standards, the EV45-NACS is ideal for Level 1 or Level 2 EV AC charging stations at both residential and commercial locations. Key capabilities include:

* Maintaining EV charging station safety by checking PE and electrical wiring integrity.
* Testing the charge current interrupt device (CCID) to ensure electrical safety.
* Indicating/verifying the maximum current output of EV chargers.
* Controlling pilot state indication and simulation.
* Comprehensive EV charger status indication with color LCD display.
* FLIR METERLiNK® Blutooth technology enables instant wireless information sharing using METERLiNK® app on mobile devices

**EV45-T2**

The FLIR EV45-T2 is equipped with a built-in IEC 62196-2 Type 2 plug for Type 2 charging stations or AC wall connectors. It is also compatible with SAE J1772 Type 1 charging stations, with a compact converter included. Offering compliance with CAT II 300V and IEC 61851-1 EV safety standards, the EV45-T2 offers the same capabilities as the EV45-NACS, as well as the testing of the residual current device (RCD) to ensure electrical safety.

**Comprehensive kit solutions**

Alongside the test adapter and test leads, the FLIR EV charger test kits see the inclusion of a FLIR DM286 digital multimeter with IGM® infrared guided measurement technology. Users can take advantage of the DM286 for voltage and frequency measurements, adding further capabilities in troubleshooting and diagnosing potential electrical issues.

The Bluetooth® FLIR METERLiNK® technology in the DM286 multimeter allows users to connect wirelessly to the METERLiNK® app on mobile devices, enabling instantaneous documentation, reporting, and sharing of results.

Two kits are available: EV-KIT-1 featuring the EV45-NACS and EV-KIT-2 with the EV45-T2.

“As the number of public and private EV charger installations continues to rise exponentially around the world, so the onus grows on test and measurement requirements in accordance with international standards,” explains **David Ko, Product Manager**, FLIR. “The market therefore requires the optimal tools to meet this demand. With our EV45-NACS/EV-KIT-1 and EV45-T2/EV-KIT-2, users can leverage the benefits of rugged, compact, and easy-to-use test adapters and kits for EV charging stations. They can also wirelessly document and share findings using a FLIR-compatible METERLiNK meter such as the DM286 thermal imaging multimeter included in both kits.”

All four newly released product part numbers include the TA91 compact and convenient carry case with shoulder strap.

To learn more about the FLIR EV45-NACS, EV45-T2, EV-KIT-1, and EV-KIT-2, please visit:

<https://www.flir.com/browse/professional-tools/electrical-tools/ev-charger-testing/>

<https://www.flir.com/products/ev45-nacs/>

<https://www.flir.com/products/ev-kit-1/>

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