



Key Features:

- Perform a Protective Earth (PE) pre-test to verify no dangerous voltage is present before testing begins
- Simulate Control Pilot (CP) states, analyze CP waveforms, and perform error simulations to evaluate EVSE operation and diagnose faults
- Verify CCID trip current and trip time, measure loop impedance, and display key electrical parameters including voltage, frequency, phase, peak voltage, and duty cycle
- Streamline workflows with automated test sequences and Bluetooth® Meterlink® connectivity for wireless data transfer and mobile app reporting.

Main Applications:

- AC EV Charging Station Installation & Commissioning – Verify the safety, functionality, and performance of newly installed public and private EV charging stations.
- EVSE Service, Maintenance & Troubleshooting – Diagnose faults, validate repairs, and perform routine testing to help keep charging infrastructure operating safely and reliably.
- EV Charging System Validation – Test and verify charging system performance to help EV charger manufacturers ensure EV charging systems meet safety and reliability requirements.

Specifications

Electrical Measurement	
PE Contact Test	Range: 50 V AC / DC / Accuracy $\pm 2.0\%$, Pass / Fault (>50 V AC / DC Between PE Conductor and Touch Sensor)
Input Electrical Ratings	1 Φ : 250 V max, 2 Φ : 300 V max, 50 / 60 Hz, max 10 A
Main Voltage	Range: 300 V / Accuracy $\pm 2.0\%$
Frequency	Range: 2 kHz / Accuracy ± 1 Hz
Duty Cycle	Range: 100% / Accuracy ± 5 Digits
PP State Indication	Not connected, Connected, Connected + latch
Maximum Charging Current Indication	13 A, 20 A, 32 A, 63 A
CP State Simulation and Waveform	A (Disconnected), B (Connected), C (Charging), D (Charging w/ ventilation), E (Error occurred), F (Error occurred)
Voltage Phase Indication	L1, L2, PE, N
CCID Trip Current and Time	Range: 21 mA AC, 5.59 s / Accuracy $\pm 2.0\%$ Range: 6 mA AC, 5.59 s for <1.2 s / Accuracy $\pm 1.0\%$
CCID Ramping Current (0°, 180°)	Range: 6 mA AC in 0.5 mA steps every 100 ms in 1.2 s, 20 mA AC in 1 mA steps every 100 ms in 2 s. / Accuracy $\pm 2.0\%$
Loop Impedance	Range: 2.000 k Ω / Accuracy $\pm 1.0\%$
Auto Testing Items	PE Contact Test, EVSE Interface, CCID Test, and Loop Impedance Test in Settings Menu

System Power	
Battery	Rechargeable Li-Battery
Battery Life	12 Hours Continuously
Auto Power Off	After Approximately 15 Minutes of Inactivity
General Information	
Display	3.5 in. TFT-LCD
NACS Connector (Built-in)	Connector for NACS Station
Accessory Converter	NACS to SAE J1772 Type 1
Category Rating	CAT II-300 V
Warranty	Limited 3-Year Warranty
Certifications	
Certifications	ETL, CE, FCC
Safety Standards	IEC 61010-1, CAT II-300 V
EMC Standards	EN61326-1

Specifications subject to change. For the most up-to-date specifications, visit flir.com.

For technical or sales support, please visit:

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Flir EV86-NACS

EV Charger Analyzer with Meterlink

Specifications, continued

Connectivity	
Wireless Technology	Bluetooth BLE
Communications Protocol	Meterlink
Bluetooth Range	10 m (32 ft)
Environmental Data	
Operating Ambient Temperature and Relative Humidity (RH)	-10°C to 30°C (14°F to 86°F), <85% RH 30°C to 40°C (86°F to 104°F), <75% RH 40°C to 50°C (104°F to 122°F), <45% RH
Storage Temperature and RH	-20°C to 60°C (-4°F to 140°F), 0 to 80% RH
Operating Altitude	2000 m (6560 ft)
Pollution Degree	2
Physical Data	
Weight	760 g (1.7 lbs)
Dimensions (L × W × H)	296 × 93.5 × 50 mm (11.6 × 3.68 × 2 in.)
Included in the Box	1 × EV86-NACS EV Charger Analyzer 1 × Converter (NACS to Type 1) 1 × USB Cable Type A to C 1 × Neck Strap 1 × Quick Start Guide 1 × Carrying Pouch with Shoulder Strap

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