



THE EASTERN SPECIALTY COMPANY

CAT. TS400

# ELECTRIC VEHICLE SERVICE EQUIPMENT (EVSE) TEST SYSTEM

## ISSUE SOLVED

With the growing demand for electric vehicles (EV), there needs to be a simple and accurate method to test EV charging systems.

Test the accuracy of AC and DC voltages and currents with **TESCO's Electric Vehicle Service Equipment (EVSE) Test System TS400**. The **TS400** is a valuable instrument with complete testing capabilities and caters to every possible EVSE charging protocol in the world (AC and DC).



**TS400 Test System** includes the **T4000 EVSE Tester** and **PL4000 Load Emulator** to test all AC/DC charging standards.

## TS400 TEST LIMITS

### Simulation

- Tesla
- CHAdeMO
- CCS1
- Additional standards available upon request.
- Easy to use – select a site and press “test”
- Extremely fast, full accuracy is achieved in less than five seconds at any power level
- Field ready, and easily transportable
- Performs all accuracy and safety tests automatically without need for operator intervention.
- All information for sites, equipment, test procedures and test results are stored in internal database.
- Compatible with all current EV charging protocols.
- Software for exporting data and creating reports.

## TS400 FUNCTIONALITY

EV charging stations are popping up all over as the sale of electric vehicles increase. Many states or counties are now mandating testing for these charging stations. **TESCO's TS400** makes testing these chargers easy!

**TESCO's EVSE Test System** tests the accuracy of energy delivery using a transactional mode compatible with Handbook 44 provisions.

The **TS400 Test System** includes a **T4000 EVSE Tester** and a **PL4000 EV Load Emulator**.

The **T4000** tests AC Level 1 and Level 2 systems up to 80 amps maximum current and DC Fast Charge systems up to 200A at 1000V DC. When the **T4000** is used with the **PL4000**, the maximum power is 14kW for both AC and DC. The **PL4000 Load Emulator** is for complete freedom and test automation. Any J1772 compatible EV can also be used as the test load by using an optional cable.

The Proximity and Pilot Control signal exchanges are fully verified for compliance with protocol requirements.

Specifications are subject to change without prior notice.

The TESCO TS400 is patented under US 9,020,771 B1.



THE EASTERN SPECIALTY COMPANY

CAT. TS400

# ELECTRIC VEHICLE SERVICE EQUIPMENT (EVSE) TEST SYSTEM



## T4000 SPECIFICATIONS

<b>AC:</b>	<b>DC :</b>
240V * 80A -> ~19.2kW	1000V * 200A -> ~200kW
208V * 80A -> ~16.6kW	

Note: The charger is the limit. The T4000 can go to 650V AC, but CCS1\_AC is limited to 240V maximum

### OPERATING

**TEMPERATURE:** -20°C to 50°C (-4°F to 122°F)

### STORAGE

**TEMPERATURE:** -22°C to 60°C (-22°F to 140°F)

**DIMENSIONS:** 21.2" x 16" x 10.6" (53.8 x 40.6 x 26.9 cm)

## T4000 FEATURES

- DISPLAY** 7", 1024 x 600, high brightness, daylight readable LCD
- ETHERNET** 100 BaseT with support for: *Web Services*, Remote Control, Database Access
- USB** 2X USB Type A with support for: Device, External Memory Storage, WiFi, Keyboard, Mouse;  
1X USB Type B connection to computer
- GPS** Integrated GPS system provides location information for automatic determination of test site and data base access
- GFCI** Provision is provided to test the GFCI functionality of the EVSE (0-200ma)
- BATTERY** 99.6Whr Li-ion removable battery
- PL INTERFACE** Provides communications and power to any Programmable Load (PL Series)
- PC SIGNAL** Frequency +/- 1Hz, Duty Cycle +/-0.5%, Wave form amplitude +/- 0.3%
- CASE** Watertight, crushproof, and dustproof Pelican™ Storm Case™

## PL4000 SPECIFICATIONS

<b>AC:</b>	<b>DC:</b>
240V * 58A -> ~14kW	240V * 58A -> ~14kW
208V * 50A -> ~10.4kW	500V * 28A -> ~14kW

Note: The PL4000 is the limit. CCS1\_AC can go to 80A, but the PL is limited to 58A

### OPERATING

**TEMPERATURE:** -20°C to 50°C (-4°F to 122°F)

### STORAGE

**TEMPERATURE:** -22°C to 60°C (-22°F to 140°F)

**DIMENSIONS:** 16.9" x 16.3" x 26" (42.9 x 41.4 x 66 cm)

**WEIGHT:** Approx. 46 lbs.



Ask about **TESCO's Cat. 1060 UtiliCart®** to easily transport and hold your equipment in the field.

*Charging Station not included.*

Specifications are subject to change without prior notice.