



THE EASTERN SPECIALTY COMPANY

# EVSE TEST EQUIPMENT TS400

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The Eastern Specialty Company



*For Mid-South Meter School  
Monday, May 1, 2023 at 2:00 PM*



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# TS400 OVERVIEW: HARDWARE

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

CAT. TS400

**ELECTRIC VEHICLE SERVICE  
EQUIPMENT (EVSE) TEST SYSTEM**



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# TS400 OVERVIEW: HARDWARE

## T4000 SPECIFICATIONS

**AC:**  
 240V \* 80A -> ~19.2kW  
 208V \* 80A -> ~16.6kW

**DC:**  
 1000V \* 200A -> ~200kW

*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

**AC:**  
 240V \* 58A -> ~14kW  
 208V \* 50A -> ~10.4kW

**DC:**  
 240V \* 58A -> ~14kW  
 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.*

**CAT. TS400**

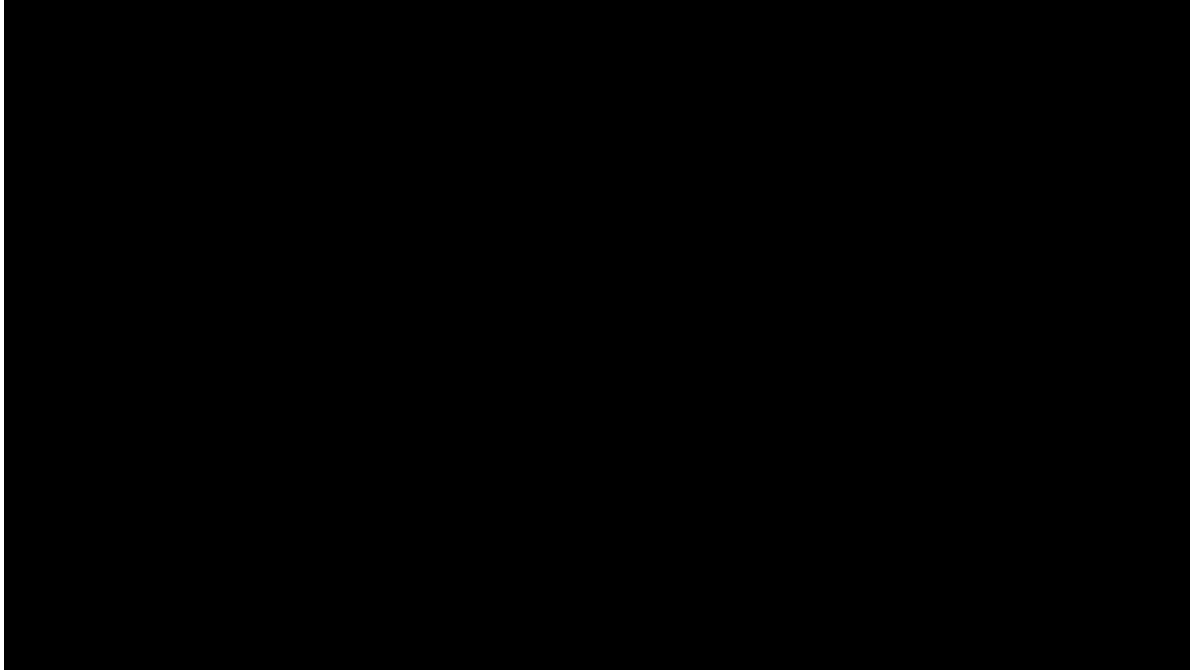
## ELECTRIC VEHICLE SERVICE EQUIPMENT (EVSE) TEST SYSTEM



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# TS400 OVERVIEW: VIDEO



CAT. TS400

**ELECTRIC VEHICLE SERVICE  
EQUIPMENT (EVSE) TEST SYSTEM**

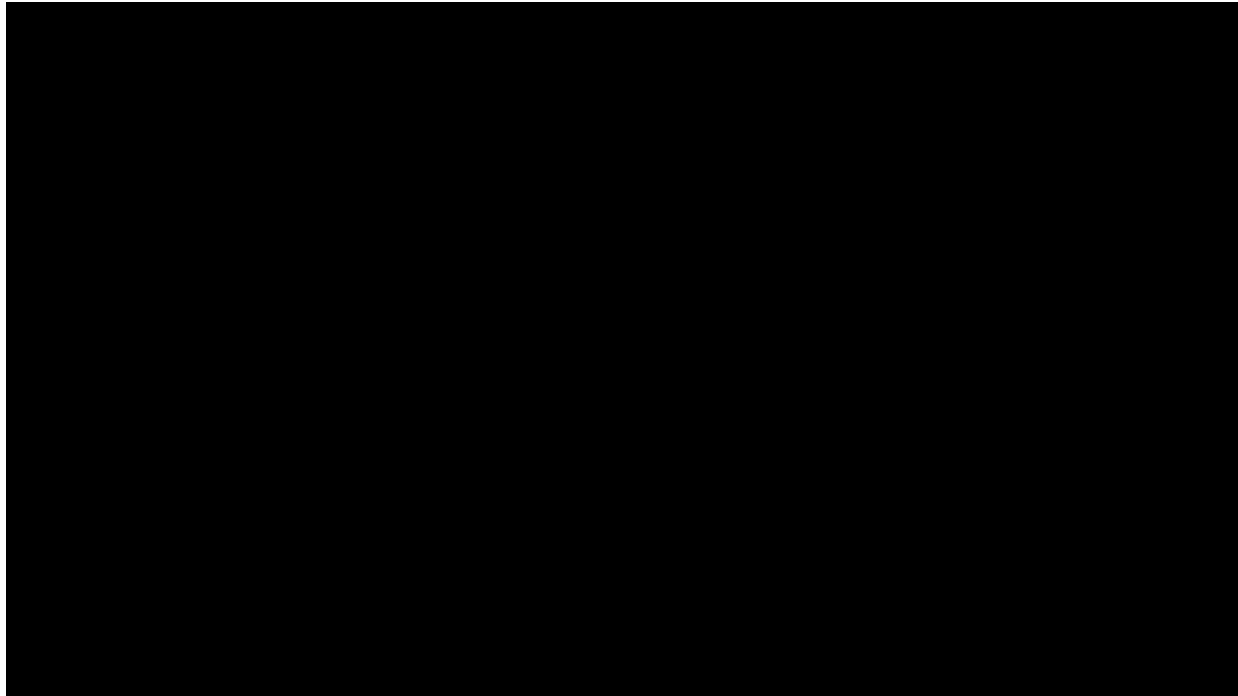


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# TS400 OVERVIEW: SOFTWARE

## TESCO Device Manager



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EQUIPMENT (EVSE) TEST SYSTEM**





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# TS400 FUTURE PROOFING

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EQUIPMENT (EVSE) TEST SYSTEM**



# QUESTIONS AND DISCUSSION

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