

CAT. TS200



# ELECTRIC VEHICLE TEST SYSTEM

THE EASTERN SPECIALTY COMPANY

## ISSUE SOLVED

TESCO's family of **Electric Vehicle Service Equipment (EVSE) Testers** provide complete test capabilities for EVSE systems conforming to J1772\_201602. Fully compliant with Handbook 44 provisions, the **TS200** can test the accuracy of energy delivered using a transactional model.

## FEATURES

### AC Capability

- Voltage: 90 to 264 VAC
- Current: 0 to 50 Amps

### Accuracy

- Voltage: 0.04% of reading
- Current: 0.04% of reading  $\pm$  0.005 Amp
- Active Energy: 0.08% of reading  $\pm$  0.002 Wh
- Apparent Energy: 0.08% of reading  $\pm$  0.002 VAh
- CP Signal: Freq  $\pm$  1Hz, Duty Cycle  $\pm$  0.5%, Wave form amplitude  $\pm$  0.3%

### Uses EVSE Connector J1772:201602

- 18KW AC
- **Safe and easy to use**
- **Provides full load emulation of electric vehicle behavior for the EVSE**
- **Completes The Pilot Control Signal Network**
- **Provides Proximity Detection Circuit**
- **Three models available to suit all budgets and testing needs**
- **Displays charging state based on SAE J1772 Standard and load mode information**



## FUNCTIONALITY

**TESCO's EVSE Test Systems** tests energy delivery accuracy using a transactional model compatible with Handbook 44.

For complete freedom and test automation use a **Test System 200 (Cat. TS200)**. 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 J1772. The EVSE's GFCI can also be tested.

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## SPECIFICATIONS

### MEASUREMENTS ACCURACY

- 0.04% Voltage Reading
- 0.04% Current Reading  $\pm 0.005A$
- 0.08% AC Active Energy  $\pm 0.002 Wh$
- 0.08% AC Apparent Energy  $\pm 0.002 Vah$
- CP Signal: Freq  $\pm 1Hz$ , Duty Cycle  $\pm 0.5%$ , Wave form amplitude  $\pm 0.3%$

### DIRECT INPUTS

- AC Current: 0 to 50A
- AC Voltage: 90 to 264V
- Power Connectivity: EVSE J1772\_201602 Connector (18KW AC / 75KW DC)

### LOAD EMULATOR

- Maximum current: 50A
- Circuit Protection: 60A Double Breaker
- Voltage Range: 90 to 264 VAC
- Load Range: 0 to 50A
- Load Setting Error:  $< 2%$

## STANDARD FEATURES

- ETHERNET** 100 BaseT with support for: Web Services, Remote Control, Database Access
- USB** 2X USB with support for: Device, External Memory Storage, WiFi, Keyboard, Mouse
- 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
- RS232** Legacy port for specialized test configurations
- BATTERY** 4800 mAhr Lilon battery pack provides power at system startup and during fault testing. Battery automatically recharges during testing operations. The unit can also be plugged directly into a standard AC outlet for recharging
- PL INTERFACE** Provides communications and power to any Programmable Load (PL Series)

