

# 2199—DESKTOP METER QUALIFICATION BOARD



## Introducing a TESCO Meter Qualification Board for your desk!

Providing complete capabilities for evaluating meters and communications performance, **TESCO's 2199 Desktop Meter Qualification Board** can generate any voltage and load conditions the meter may encounter in the field. Apply non-sinusoidal voltages with complex load waveforms. Perform disconnect tests and reconnect tests without having to worry about being able to drive the meter's switches.

If you liked TESCO's 2100, then you will love the new 2199 Desktop Meter Qualification Board. The 2199 provides every option possible on a 2100 plus much more including:

- Voltages that are completely programmable from 30-480 volts
- Loads that are completely programmable from 0-50 amps
- Standard disconnect/reconnect testing
- A zero insertion force socket (electrically operated)
- The most lightweight and portable desktop meter station available

## FUNCTIONALITY

The 2199 is a Desktop Meter Qualification Board that meets ALL of your meter evaluation needs.

## Desktop MQB

2199



## SPECIFICATIONS and FEATURES

- Voltage Drive: 30-480V RMS, 680V PK
- Current Drive: 0.01A to 50A RMS, 75A PK
- Automatic Generation of all ANSI C12.20-2016 waveforms
- Arbitrary harmonically defined waveforms
- Dropped cycle testing
- Phase fully adjustable as phase or power factor (0-359.9°)
- True ZERO insertion force socket with automatic closure on meter insertion
- Disconnect/Reconnect testing is standard
- Optional external transformer provides up to 1,000 VA when necessary for disconnect/reconnect testing of certain types of meters
- Voltage Accuracy:  $\pm 0.5\%$  above 60V
- Current Accuracy:  $\pm 0.5\%$  above 0.1A
- Voltage and Current Stability:  $\pm 0.1\%$  (15°C to 30°C)
- Fundamental Frequency: 45-65Hz
- **Meter Forms**
  - 1S-6S, 8S-17S, 25S, 26S, 29S, 32S, 35S, 36S, 45S, 46S, 56S, 66S, 76S, 103S, 106S, 109S, 112S, 116S, 125S, 135S, 136S, 145S, 166S
  - Please inquire for adding any other meter forms
- Supports all forms requiring AUX power connections
- Supports C12.20-2017 meter forms with AUX power connections
- Power Line Carrier Communication Testing
  - No PRTU or other external equipment are needed to perform PLC communication testing
- Forward/Reverse Current
- 800x480 Color LCD Display
- Integrated control keypad
- Ethernet connectivity
- Remote disconnect switch triggering can be handled up to 50 amps and the state of the disconnect switch will be indicated on the board.
- Power Requirements: 120VAC, single phase at 15A. A 12ft power cord with NEMA L5-15 locking connector is provided.
- Size approximately: 13"W x 18"H x 18"D
- Weight approximately 15 pounds

# TESCO's 2100 DESKTOP METERS



Don't need all of the capabilities of the 2199 Desktop MQB? Need a cost effective solution for a dedicated application? Then TESCO's tried and true workhorse—the 2100 family—is your solution. Thousands of 2100 family products have been providing essential evaluation functionality for numerous AMI and AMR deployments throughout North America.

Some of the new developments for the 2199 have also been brought to the 2100 line and made part of their basic design. For example, for utilities who select the Powerline Carrier Communication testing option (-C) all versions of PLC can now be accommodated and none of them require any additional equipment to test. At TESCO we are constantly learning and working on improving what we are doing. We want to be your resource for all of your metering needs.

Call your Regional Manager for more information on either the new 2199 or our existing 2100 line.



## SPECIFICATIONS and FEATURES

### Standard Meter Forms Available

- All standard meter forms available

### Voltage

- Voltage Selectable  
120/208/240/277 VAC; 347, 480 and 600 VAC optional
- Custom voltages available

### Dimensions

- 12"x10"x11" (W x H x D)
- 12"x10"x13" (W x H x D Disconnect and built-in load models)

### 2100 Options

- "C" Power Line Carrier Communication
- "D" Disconnect Operation
- "E" External Load up to 50 amps
- "I" Internal Load - 1/2 amp phantom
- "L" Built-in Load - 0, 5 and 30 amps (custom loads available)
- "R" Load Receptacle - 120 VAC receptacle
- "V" 480 VAC Meter Testing
- "Can" (Canadian) units can have additional voltage selections of 347 and 600

### 2100 Desktop Meter Station Stock Units Include:

- 2100-E-I-Reverse
- 2100-E-I-D-Reverse
- 2100-L-E-D-V-Reverse
- 2100-E-I-D-V-Reverse
- 2100-E-I-C-V
- 2100-E-I-C-D-V
- 2100-L-D-C-V-Reverse
- 2100-L-V-Reverse
- 2100-R-I-D
- 2100-E-R-D
- 2100-E-I-Can
- 2100-E-I-D-Can
- 2100-L-Can
- 2100-L-D-Can



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