

DESCRIPTION

The Kyle Type MET electronic recloser control tester (Figure 1) is designed specifically for testing Type ME Form 2, Form 3, Form 3A, Form 4A and Form 4C controls. The tester has the capability to check the following:

1. Battery voltage (load and no load).
2. Battery charge and discharge rates.
3. Minimum-trip current, phase and ground (low range to 5 amp ground).
4. Operating sequence.
5. Control response time (phase and ground trip).
6. Reclosing time.
7. Reset time.
8. Electrical operation of recloser.
9. Various accessory functions through simulation of the conditions under which they operate.

The self-contained unit is compactly packaged in a sturdy, weather-proof carrying case with a detachable front cover. Cables for connecting the recloser, electronic control, and control battery to the tester are supplied with the tester and stored in the carrying case along with spare fuses and bulbs for panel lights. No other external equipment or accessories are required when using the tester.

The tester can check operation of the electronic recloser control and also can check the electrical operation of the recloser (provided reclosing power is available at the recloser). However, the control cannot operate the recloser through the tester.

A recloser-simulator circuit is built into the tester to simulate recloser operation (indicated by red and green lights on the tester panel) and to simulate the response time of the recloser mechanism to trip and close signals. The recloser simulator provides a 2-1/2-cycles time delay to duplicate the interrupting time of a Type RE recloser in response to a trip signal from the control when recloser clearing time tests are being conducted. It also provides a time delay of approximately 30 cycles to duplicate the response time of a Type RE or WE recloser to a reclosing signal from the control when reclosing time tests are being conducted.

SPECIFICATIONS

Input

115 Vac, 50/60 Hz, single phase (fused for two amp) with 15-ft power cord and a three wire grounding plug.

240 Vac 50/60 Hz, single phase (fused for one amp) with 15-ft power cord with no plug attached, is available as an accessory.

Output

0—3000 mA continuously adjustable from front panel of tester.

Instrumentation

1. DC METER

Edgewise panel meter with two-in. horizontal scale; accuracy $\pm 5\%$ full scale; panel switched ranges: 0—4/40 mA, 0—40 V.

2. AC METER

Edgewise panel meter with two-in. horizontal scale; accuracy $\pm 5\%$ full scale; panel switched ranges: 0—30/100/1000/3000 mA.

NOTE: Jacks on the tester panel provide the means for connecting an external ammeter into the circuit. They may be used for calibrating the internal meter or it different scales or greater accuracy is desired.

3. TIMER

LCD readout digital clock timer, 000.000 to 999.999 seconds in 0.001-second increments; with manual and automatic reset; accuracy $\pm 0.001\% \pm 1$ digit.

Interconnecting Cables

1. 15-ft cable for connecting electronic control to tester.
2. 15-ft extension cable for connecting end of recloser cable to tester.
3. 15-ft cable for directly connecting control-panel battery terminals to tester.

NOTE: Connector terminations on all cables are polarized to assure proper interconnection. An internal buzzer will sound if a mismatch between grounds on the ME control and the MET tester exists.

AC Power Cord

15-ft three-wire power cord with groundable power plug

Carrying Case

Tester is packaged in a sturdy Formica covered carrying case with removable front cover; has provisions for storing power cord, interconnecting cables, and spare fuses and bulbs.

Dimension

9-1/2 in. high, 21 in. wide, 13-1/4 in. deep overall.

Weight (Approximately.)

Net 33 lb; shipping 37 lb.