

Kyle® Type MET Electronic Recloser Control Tester

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, Form 4C, Form 5, Types FX, FXA, and FXB controls. The tester has the capability to check the following:

- Battery voltage (load and no load).
- Battery charge and discharge rates.
- Minimum-trip current (phase- and ground-trip).
- Operating sequence.
- Control response time (phase- and ground trip).
- Reclosing time.
- Reset time.
- Electrical operation of recloser.
- Functioning of various accessories through simulation of the conditions under which they operate.

The self-contained unit, compactly packaged in a handy carrying case with a detachable front cover, includes the following:

- Multi-scale dc meter with associated switches for checking the battery and battery-charging circuits.
- Multi-scale ac meter and adjustable current source to duplicate the output of the sensing bushing current transformers of the recloser.
- Solid-state digital clock to measure time of the test.
- Simulator circuit to simulate recloser operation and duplicate recloser mechanism response times to trip and close signals.
- Switches and associated circuitry for performing the various tests.
- Cables for connecting the control, recloser, and control battery to the tester.
- Internal buzzer sounds if a mismatch between grounds on the ME control and MET tester exists.



Figure 1.
Kyle® Type MET electronic recloser control tester.

89989KM-F

SPECIFICATIONS (see page 2 for further information)

Input	120 Vac; 60 Hz; single phase (fused for 2 amps).
Output	0–3000 mA continuously adjustable from front panel of tester.
Instrumentation	
Dc meter	Edgewise panel meter with 2-in. horizontal scale; accuracy $\pm 5\%$ of full scale.
Panel-switched ranges	0–4/40 mA; 0–40 volts.
Ac meter*	Edgewise panel meter with 2-in. horizontal scale; accuracy $\pm 5\%$ of full scale.
Panel-switched ranges	0–30/100/300/1000/3000 mA.
Timer	Digital clock timer 0–999.999 seconds in 0.001-second increments; with manual reset.

*Jacks are provided on the panel for connecting external ammeter if different ranges, greater accuracy, or calibration of panel meter is required.

ORDERING INFORMATION

The tester is supplied as a complete unit and includes all necessary interconnecting cables. To order, specify tester by description and catalog number.

Type MET electronic recloser control tester: Catalog No. KMET.

For prices, see Apparatus Catalog 280-80, Part 76, Page 1.

RECLOSER SIMULATOR

No external equipment or accessories are required when using this tester. The tester can check the operation of the electronic control and the recloser (provided reclosing power is

available at the recloser). However, the control cannot operate the recloser through the tester. Recloser operation is simulated with red and green indicating lights on the tester panel. A built-in time delay is also provided to simulate the response time of the solenoid-closing recloser mechanisms to a trip signal ($2\frac{1}{2}$ cycles) and a closing signal (30 cycles) from the control.

CARRYING CASE

The unit is packaged in a sturdy Formica®-covered carrying case with removable front cover and provision for storing interconnecting cables, spare fuses, and bulbs.

continued

INTERCONNECTING CABLES*

15-ft. cable for connecting electronic control to tester.
15-ft. extender cable for connecting end of recloser cable to tester.
15-ft. cable for directly connecting control battery terminals to tester.

*Connector terminations on all cables are polarized to assure proper interconnection.

DIMENSIONS (OVERALL)

9½ in. high; 21 in. wide;
13¼ in. deep.

WEIGHT (APPROXIMATE)

Net: 33 lbs; shipping: 37 lbs.



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