PHENIX TECHNOLOGIES

PORTABLE HIGH CURRENT TEST SETS

Models HC1 and HC2

These High Current Test Sets are built for field or shop use. Designed using the latest technology, these units combine a variable high current output with appropriate controls and instrumentation. The test set is ideal for testing thermal, magnetic, and solid-state motor overload relays as well as molded-case circuit breakers and ground fault trip devices. They can also be used in many other applications requiring a high current source.

HC1

HC2

The HC1 provides a short duration output of 1000 amps through a typical 150 ampere molded-case circuit breaker when an instantaneous trip element must be tested. The HC2 is capable of a 2000 amp instantaneous output. Sufficient current is available for testing the time delay characteristics of motor overload relays and molded case circuit breakers.

The unique auto-sensing feature makes these testers easy to operate. Sensing leads, which operate on either normally-open or normally-closed devices, are connected to the test object. The output current level can be easily pre-set. When the output is initiated, the pre-set output current locks on and the timer starts. When the test set senses a change in state of the test object (NO to NC or NC to NO), the current shuts off and the timer stops. For instantaneous trip tests, the memory feature of the currentmeter holds the peak current value until reset by the operator.

Specifications

INPUT:	120 or 220 VAC, 50 or 60 Hz	
	(Voltage and Frequency must be specified.)	
	HC1	**HC2**
120 V	20 Amp-Delay	20 Amp-Delay
220 V	10 Amp-Delay	12 Amp-Delay
OUTPUT:	0-120 V @ 5 A	0-70 V @ 25 A
	0-24 V @ 25 A	0-14 V @ 125 A
	0-6 V @ 120 A	0-7 V @ 250 A
	0-3 V @ 240 A	0-3.5 V @ 500 A
OVERLOAD:	1000 Amps	2000 Amps

Short duration overloads are possible on each tap. The test set is capable of outputs up to those indicated above, depending on the impedance of the test circuit.

DUTY CYCLE: Continuous @ 100%
5 min ON / 15 min OFF @ 200%
1 min ON / 5 min OFF @ 300%
30 sec ON / 5 min OFF @ 400%

INSTRUMENTATION:
Currentmeter: 3 ½ digit LCD
Ranges: 0-1.999/19.99/199.9/1999 A
Accuracy: ± 0.5%
Timer: 6 digit LCD, in cycles or seconds
Range: 0-999999 cycles or 0-9999.99 seconds
Accuracy: ± 0.1% of reading

DIMENSIONS/WEIGHT:
HC1 and HC2: 21" W x 17" D x 13" H
533 mm x 432 mm x 330 mm
HC1: 70 lbs. (32 kg) **HC2:** 112 lbs. (51kg)

OUTPUT LEADS: (5 feet each)
HC1 and HC2: Timer control leads (2)
Low current leads, 10 ga. (2)
HC1: High current leads, 2 ga. (2)
HC2: High current leads, 4 ga. (2)
High current leads, 4/0 (2)

Specifications are subject to change without notice.

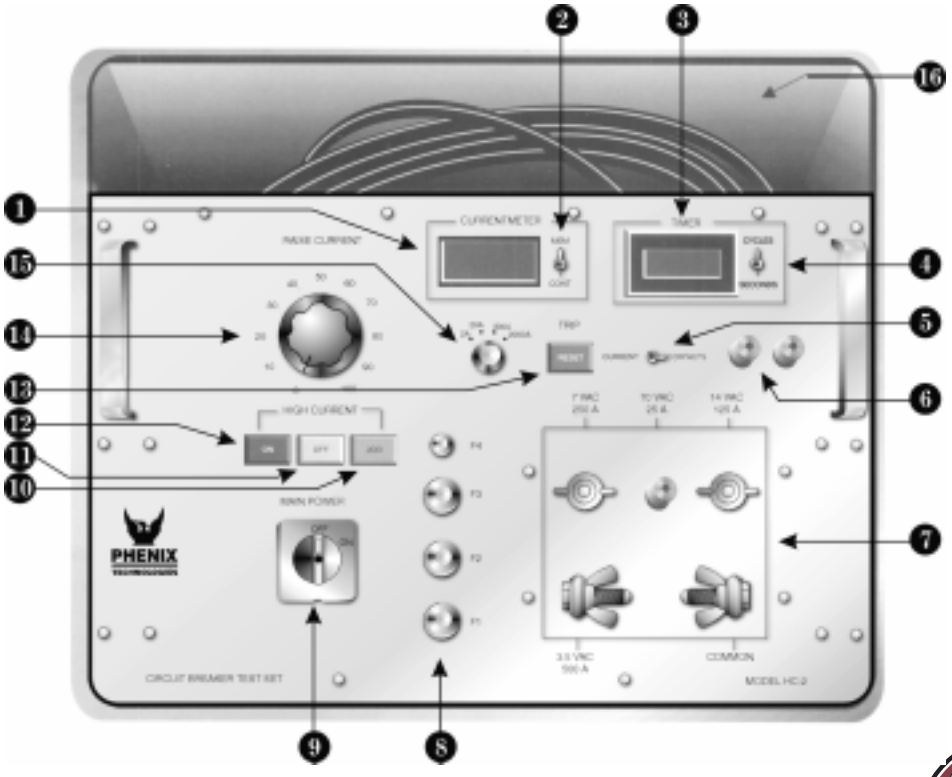
Microprocessor Controlled High Current Test Sets

In addition to the portable models, PHENIX Technologies offers a complete range of Microprocessor-Controlled High Current Test Sets. These testers represent a new era of electrical testing technology based on time-proven concepts and a microprocessor-based measurement and control interface. The output transformer of this line of test sets has been designed with an arrangement of output connections that offer two output ranges at full kVA. Advanced methods of construction provide optimum efficiency with reduced weight and size. Outputs of all test sets are continuously variable over the entire range by means of tap selection and vernier adjustment. Fully automated, these units use a motorized vernier and pushbutton-programmable tap selection, along with auto-jog and current-hold capabilities. These high current test sets come equipped with a standard RS232 computer port and WIN-HC Windows software package that allows complete control and report generation from the PC.

Control Panel Layout

HC1

1. Current Meter
2. Raise Current Dial
3. Current Range Selector
4. Fuse Protection
5. Power ON/OFF Switch
6. High Current ON
7. High Current OFF
8. Jog Switch
9. Trip Indicator/Reset Switch
10. Output Terminations
11. Sensing Selector Switch
12. External Sensing Lead Jacks
13. Cycles/Seconds Mode Selector
14. Timer
15. Current Memory/Continuous Mode Selector Switch
16. Cable Storage Area



HC2

1. Current Meter
2. Current Memory/Continuous Mode Selector Switch
3. Timer
4. Cycles/Seconds Mode Selector
5. Sensing Selector Switch
6. External Sensing Lead Jacks
7. Output Terminations
8. Fuse Protection
9. Power ON/OFF Switch
10. Jog Switch
11. High Current OFF
12. High Current ON
13. Trip Indicator/Reset Switch
14. Raise Current Dial
15. Current Range Selector
16. Cable Storage Area

Your local representative is

ISO 9001 CERTIFIED

PHENIX®
TECHNOLOGIES
116 Industrial Drive
Accident, MD 21520 USA
Tel: 301-746-8118
Fax: 301-895-5570
http://www.phenixtech.com