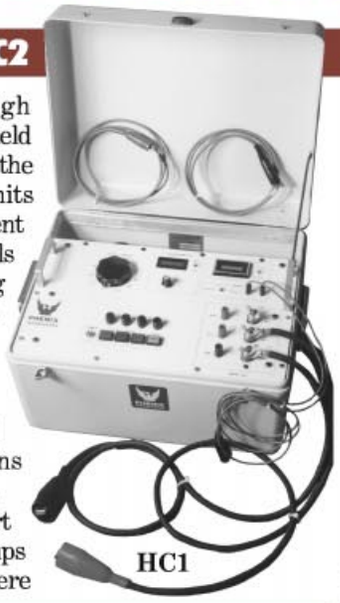
PHENIX TECHNOLOGIES

PORTABLE HIGH CURRENT TEST SETS

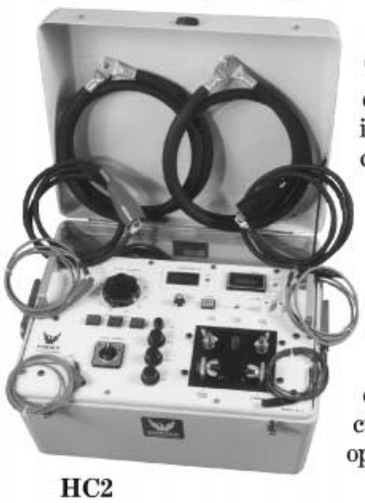
Models HC1 and HC2


HC1

These models are High Current Test Sets built for field and shop use. Designed using the latest technology, these units combine a variable high current output with appropriate controls and instrumentation 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.

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.


HC2

Specifications

INPUT:	120 VAC or 220 VAC, 50/60 Hz**	
	HC1	HC2
OUTPUT:	0-120V @ 5 A	0-70V @25 A
	0-24V @25 A	0-14V @ 125 A
	0-6V @ 120 A	0-7V @ 250 A
	0-3V @ 240 A	0-3.5V @ 500 A
OVERLOAD:	1000 A	2000 A

Short duration overloads are possible on each tap. The test sets are 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:	3½ digit LCD
	Ranges:	0-1.999/19.99/199.9/1999 A
	Accuracy:	± 0.5%
	Timer:	6 digit LCD (cycles or sec.)
	Ranges:	0-999999 cycles/0-999.99 sec.
DIMENSIONS:	HC1 and HC2	
	21" (533 mm) W x 17" (432mm) D x 13" (330mm)H	
WEIGHT:	HC1—70 lbs. (32 kg)	
	HC2—112 lbs. (51 kg)	

OUTPUT LEADS:	HC1 and HC2 low current sense leads	2
	HC1 and HC2 medium current leads	2
	HC1 #2 high current leads	2
	HC2 #4 high current	2
	HC2 4Ø high current	2

**Voltage must be specified.

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 represent a new era of electrical testing technology based on the marriage of 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 which 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 PHENIX Technologies High Current Test Sets incorporate a laptop PC as the measurement and control interface. Standard software is provided to allow the operator to perform routine circuit breaker testing.

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

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