# Hipot Tester Models H110, H115, H210 & H215

## **Programmable Digital Electrical Safety Testers**



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The AEMC® Hipot Testers are designed for AC/DC Withstanding Voltage Testing and Insulation Resistance Testing (IR), providing a safe and accurate test environment for the operator.

The testers comply with the requirement of the electrical equipment and appliance testing standard, UL, CSA and other international standards. The testers can be used for withstanding voltage tests of the various types of electrical equipment and components.

The testers include AC Withstanding voltage test, DC Withstanding voltage test and Insulation Resistance test.



#### **Features**

- No load setup of trip current and output voltage. A safe way to setup trip current and output voltage without having the high voltage activated, or the use of a load resistor.
- Large 24 x 2 character LCD with adjustable backlight. Provides a clear display of all test parameters, including test, step, mode, status, output voltage, trip current and test time.
- Quick and easy setup from the front panel. A user-friendly interface provides a quick and easy way to set all parameters.
- Electronic ramping and testing.
  Digitally controlled ramping and test time.
- Line and load regulation. Linear amplifier and feedback – control maintains the output voltage independently from load variations.
- Selectable output frequency.
   50/60Hz operation is selectable through the "UTILITY" setup.

- Adjustable ARC detect level. ARC detect level can be programmed in the "UTILITY" setup.
- Storage of up to 6 tests, 6 steps for each test. Provides the user with a choice for testing different types of products or different test scenarios.
- Adjustable output voltage during test. A special test mode in step 0 allows the user the ability to manually adjust the output voltage during test.
- Flashing high voltage indicator.
   A flashing red LED warns that high voltage is present at the output.
- **PLC remote control.** The 9-pin interface provides:

inputs: START, RESET outputs: TEST, PASS, FAIL

 Data lock function. Front panel can be locked or unlocked by the "UTILITY" setup to prevent unauthorized changes to the setup.

### **Applications**

- Test dielectric strength of electrical insulation
- Test ground circuit continuity of 3wire appliances and devices
- Detect workmanship defects, such as nicks in wires and components mounted incorrectly
- Locate defective components
- · Measure insulation resistance

	H110	H115	H210	H215
AC Hipot – 5kV	1	1	1	✓
DC Hipot – 6kV	_	_	✓	✓
Continuity	<b>√</b>	1	✓	✓
Arc Detection	✓	1	✓	<b>√</b>
Insulation Resistance (IR)	_	1	_	1



Model H215 tests a board for leakage with optional HV Test Pistol.

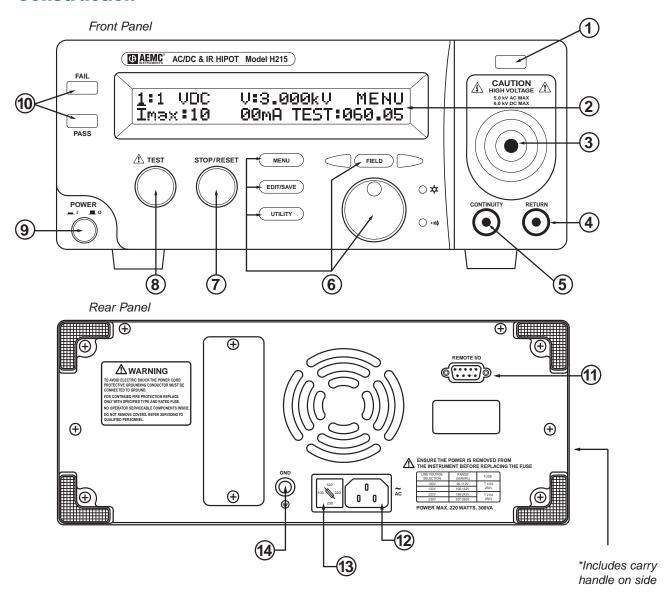


## **Specifications**

MODELS	H110	H115	H210	H215			
ELECTRICAL							
AC HIPOT							
Voltage Range	100V to 5000Vac (5kV)						
Voltage Step Resolution	5V						
Voltage Regulation	±1% of Reading ± 5cts						
Accuracy	±1% of Reading ± 5cts (>500V)						
Test Frequency	50Hz or 60Hz (selectable)						
Current	0.10mA to 20mA in 0.01mA steps						
Max Current Output	20mA @ 5kVac						
Accuracy	±1% of Reading ± 5cts						
Ramp and Test Time	0.000s to 999.9s						
DC HIPOT		0.0008 10	9 999.95				
	_		1007/+> 600	)()/po (6l/l)			
Voltage Range		-	100V to 6000Vpc (6kV)				
Voltage Step Resolution		_	5V				
Voltage Regulation		_	±1% of Reading ± 5cts				
Accuracy	_	_	±1% of Reading ± 5cts (>500V)				
Trip Current	_	_	0.10mA to 7.50mA in 0.01mA steps				
Max Current Output	_	_	10mA @				
Accuracy		-	±1% of Reading ± 5cts				
Ramp and Test Time		_	0.000s to	o 999.9s			
INSULATION RESISTANCE	(IR)						
DC Test Voltage	-	500V and 1000V	_	500V and 1000V			
Measurement Range	_	1 to 9900MΩ	_	1 to 9900MΩ			
Accuracy 1 to $500M\Omega$	_	±5% of Reading	_	±5% of Reading			
501 to 2000MΩ		±10% of Reading	_	±10% of Reading			
Test Time		0.000s to 999.9s	_	0.000s to 999.9s			
CONTINUITY CHECK							
Resistance Range	0.001Ω to 1.500Ω						
Test Current	100mA (0.1A)						
Detect Accuracy	0.1Ω @ 1Ω						
Test Time	0.000s to 999.9s						
ARC DETECT							
Detect Current	Selectable in 2mA steps from 2 to 20mA						
STORAGE							
Programmable test	6						
sequences							
Steps per test sequence			6				
REMOTE INTERFACE (DB-	9 CONNECTOR)						
Outputs	Test, Pass and Fail						
Inputs	Start and Reset						
Output Breakdown Voltage	± 350V						
Continuous Load Current	± 100mA						
POWER SUPPLY							
		100V, 120V, 220V, 230	V ± 10% @ 50/60Hz (selectable	e on rear panel)			
MECHANICAL							
Operating Temperature	32° to 104°F (0° to 40°C) @ 80% RH max						
Storage Temperature	14° to 158°F (-10° to 70°C) @ 70% RH max						
Operating Environment	Indoor use only: altitude up to 6500 ft (2000m). Ambient temperature: 32° to 104°F (0° to 40°C)  Relative humidity: 80% max. Installation Category II. Pollution degree 2						
Dimensions	17.5 x 13 x 5.8" (446 x 330 x 149mm)						
Weight	26.5 lbs (12kg)						
SAFETY							
Safety Rating	EN 61010-1						
CE Mark	Yes						
OL Maik	103						



### **Construction**



- 1. High voltage indicator
- 2. 24 x 2 character LCD
- 3. High voltage output jack
- 4. Ground jack
- 5. Continuity jack

- 6. Program/setup keys
- 7. Stop/Reset button
- 8. Test button
- 9. Power On/Off switch
- 10. Pass/Fail indicators

- 11. Remote interface DB-9 connector
- 12. AC power outlet
- 13. Fuse holder/line voltage selector
- 14. Ground terminal

HV Test Lead Lead set with test probe included



ORDERING INFORMATION	CATALOG NO.
Hipot Tester Model H110 (5kVac)	Cat. #2117.81
Hipot Tester Model H115 (5kVac and IR)	Cat. #2117.82
Hipot Tester Model H210 (5kVac/6kVdc)	Cat. #2117.83
Hipot Tester Model H215 (5kVac/6kVpc and IR)	Cat. #2117.84
All models include tester, lead set with test probe, DB-9 connector and user manual	
Accessories	
HV Test Pistol Model SP02	Cat. #2117.88
HV Test Lead 9 ft (3m) unterminated at one end (same as SP02 Lead)	Cat. #2117.89



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