



FUNCTION TESTERS / production tester verification

# HTT-1R

FAST SAFE RELIABLE



FUNCTION CHECKER FOR DIELECTRIC WITHSTAND/GROUND CONTINUITY.

## FEATURES

- ▶ Quickly, safely and easily proves function of any hipot and/or ground continuity tester using actual loads for ground bond/continuity and leakage current for each PASS and FAIL test.
- ▶ Provides compliance to CIG-023 requirements using several standard configurations. Custom values available.
- ▶ Verifies operation of your test equipment before each shift or before testing of large production runs, ensuring quality and safety tests are being conducted.
- ▶ Simulates Ground Continuity passing condition with 0.025 ohm; failing conditions with 0.1 ohm. Circuits rated for use at up to 30A.
- ▶ Simulates Leakage Current passing conditions of half the setpoint value to ensure the hipot tester is providing both voltage and current. Various leakage current trip levels are available from stock. Custom configurations available.
- ▶ Resistance values used in each HTT-1R are marked on the rear panel for agency verification.
- ▶ Arc Test is simulated by open circuit (pass) and arc-over at 750Vac (fail). Arc can be viewed through a window on the HTT-1R.
- ▶ Ergonomically designed for safety, speed and efficiency.
- ▶ Small footprint and light weight.
- ▶ Durable and compact.



The blue box that tests. And tests.

**CALRIGHT INSTRUMENTS**

The Right Source For Your Test & Measurement Needs

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# HTT-1R



## SPECIFICATIONS

Setting of PASS for Ground Bond Circuit:	0.025 ohm resistor*.
Setting of FAIL for Ground Bond Circuit:	0.1 ohm resistor*.
Ground Bond Circuit Rating:	30A
Ground Bond Circuit Duty Cycle:	<10A continuous. >10A 3 seconds test followed by 10 seconds rest.
Arc Circuit Pass Circuit:	Open circuit.
Arc FAIL Circuit value:	arc-over at 750V ± 400Vac / 1050V ± 560Vdc.
Arc Circuit Rating:	3000Vac / 4200Vdc max.
Leakage Current**:	Four standard circuits available: Pick from Options LomA, MedmA, HimA or ExmA. Custom values available. Please contact factory.
Option LomA ratings:	
Setting of PASS:	4.232MΩ. Voltage dependent. Examples: 0.5mA at 2100Vrms; 0.35mA at 1500Vrms.
Setting of FAIL:	2.088MΩ. Voltage dependent. Examples: 1mA at 2100Vrms; 0.71mA at 1500Vrms.
Option MedmA ratings:	
Setting of PASS:	848kΩ. Voltage dependent. Examples: 2.48mA at 2100Vrms; 1.77mA at 1500Vrms.
Setting of FAIL:	424kΩ. Voltage dependent. Examples: 5mA at 2100Vrms; 3.55mA at 1500Vrms.
Option HimA ratings:	
Setting of PASS:	424kΩ. Voltage dependent. Examples: 5mA at 2100Vrms; 3.57mA at 1500Vrms.
Setting of FAIL:	200kΩ. Voltage dependent. Examples: 10.5mA at 2100Vrms; 7.5mA at 1500Vrms.
Option ExmA ratings:	
Setting of PASS:	220kΩ. Voltage dependent. Examples: 7.1mA at 2100Vrms; 5mA at 1500Vrms.
Setting of FAIL:	120kΩ. Voltage dependent. Examples: 17.5mA at 2100Vrms; 12.5mA at 1500Vrms.

\*Note: Connection resistance to your ground bond equipment can add up to 0.03Ω to the actual test value.

\*\*Note: Vrms values are the values read on the meter of the hipot tester when set to either ac or dc.



## ENVIRONMENTAL

Operating Temperature::	15-40°C
Relative Humidity Range:	0-90% non-condensing



## GENERAL

Weight:	2 lbs.
Dimensions:	5.3 (W) x 6.8 (H) x 2.3 (D) in.



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