

## Ground Bond Tester

### MODEL 19570

#### Key Features :

- TUV approved
- CE certified
- High current ground continuity testing up to 30Amps
- Resistance measurements from 0.1mΩ up to 510mΩ
- Large LCD display (240 x 64dot matrix) can supply great view of test result and setting functions
- 4 terminal kelvin connections make higher accuracy
- Programmable high and low resistance limits
- Adjustable test time from 0.1 to 999 seconds
- Built-in calibration via software
- Automatic offset of lead resistance
- Built-in resistance compensation function
- Compatible with the 19070 series Hipot Tester
- Digital readout of current, resistance and test time
- Front panel lockout
- Remote control
- Storage of 10 tests setups
- Beeper on/off
- Easy to use



## GROUND BOND TESTER MODEL: 19570

The Chroma 19570 provides high current testing of ground continuity between chassis and power cord ground on a wide variety of electrical products and appliances. The unit is designed for maximum flexibility and operation convenience in mind.

The simple front panel of the tester requires less effort to operate. The Digital display and user friendly control allow test parameters and limits to be set easily without activating the high voltage. The instrument can be put on line rapidly. It can provide operators useful measurements with little to no training.

The use of a high current AC test provides a better simulation of how the ground on the device would perform under actual conditions if the motor or wiring was to short to ground. This verifies that the grounds in the device can handle 25 or 30 Amps until a circuit breaker trips or fuse blows. Most European standards such as TUV, IEC, VDE, BABT and CSA recommend this type of testing. In contrast, the ground continuity test that is provided as part of most hipot testers just checks to make sure there is a connection.

#### High and Low Resistance Limits

The 19570 offers a resistance measurement range from 0 to 510mΩ. The high and low resistance limits with pass/fail indication are also user programmable.

#### Remote Control

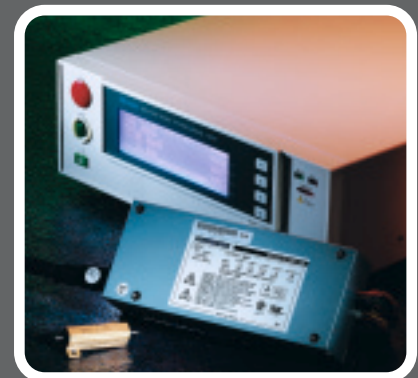
The 19570 can be incorporated into an automated manufacturing environment with remote start and GO/NOGO results output through the rear panel PLC interface.

#### The 19070 Series Hipot Tester Compatibility

The 19570 can be used alone or connected to Chroma 19071/19072/19073 for complete product test with the push of one button. When the 19570 has completed a continuity test, with pass indicated, it can remotely start the 19071/19072/19073 for a hipot test in sequence.

#### Built-In Calibration Via Software

The front panel display of an operation promoted calibration routine requires no internal adjustments.



# Chroma

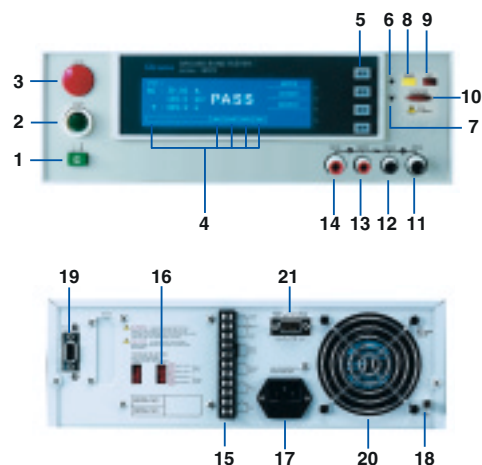


## Specification

Model	19570
Mode	Ground Bond
<b>Grounding Resistance Test</b>	
Output Current	AC : 1 ~ 30A, 0.01A step
Load Regulation	1 % + 0.3A
Resolution	10mA
Current Accuracy	1 % + 0.3A
Output Frequency	50Hz/ 60Hz
Resistance Range	0 ~ 510mΩ
Resistance Resolution	0.2mΩ
Resistance Accuracy	1 % + 5 counts
Offset	* A predetermined value can be subtracted from the measured value and the result of subtraction can be display. * The result of subtraction can be compared with a Good/NO Good judgment reference value, and the result of comparison can be used for the Good/NO Good judgment.
Offset Range	0 ~ 100mΩ
Test Time	0.3 sec. ~ 999.9 sec., continue
Waveform	Sine wave
GO/NG Judgment	* A no-good judgment is made when a resistance greater than the high limit value is detected. * A no-good judgment is made when the output current is cut out and a no-good alarm signal is delivered. * If no abnormal state is detected during the test time, a good judgment is made and a good signal is delivered.
Limit	Hi-limit : 0 ~ 510mΩ
<b>General</b>	
Operation Environment	Temperature : 0 ~ 40°C Humidity : ≤ ≥ 80% RH
Power Consumption	No-load (ready state) : <100W With rated load : 500W max.
Power Requirement	100V/120V/ 220V AC ±10%, 240V AC +5%~ -10%, 50/60Hz
Weight	9.5kg approx.
Dimension (W X H X D)	320 x 105 x 400mm

All specifications are subject to change without notice.

## Panel Description



1. LINE Switch
2. Start Key
3. Stop Key
4. Status List
5. Function Keys (F1-F4)
6. Cal Enable
7. Update Enable (Firmware is upgraded by PC directly.)
8. Pass Indicator
9. Fail Indicator
10. Test Indicator
11. RTN/LOW
12. Sense (-)
13. Sense (+)
14. Drive (+)
15. Remote I/O
16. LINE Voltage Selector
17. Power Cord Receptacle
18. RTN/LOW
19. RS-232 Interface
20. Fan
21. Remote Interface

## Application

- Verifying integrity of ground connection on appliances and instruments which use 3 prong power cord
- Tests for chassis to ground resistance
- Electric motor safety test
- Variety of medical applications
- Extensive coverage for the testing of UL, CSA, VDE, IEC and other agency safety requirements

## Order Information

- 19570** Ground Bond Tester  
**A190701** Remote Control Box  
**A195701** RS-232 Interface

Developed and Manufactured by:

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