

## Ground Bond Tester

### MODEL 19572

#### Key Features :

- TUV approved
- CE certified
- High current ground continuity testing up to 45Amps
- Resistance measurements from 0.1mΩ up to 45Amps
- Large LCD display (240 x 64dot matrix) Can supply great view of test result and setting functions
- Programmable high and low resistance limits
- Adjustable test time from 0.5 to 999 seconds or continue
- Built-in calibration via software
- Automatic offset of lead resistance
- Built-in resistance compensation function
- Compatible with the 19070 series Hi-pot Tester
- Digital readout of current, resistance and test time
- Front panel lockout
- Remote control
- 10 steps or 99 groups for total 500 memory locations
- Beeper on/off
- Easy to use



## GROUND BOND TESTER MODEL 19572

The Chroma 19572 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 too short to ground. This verifies that the grounds in the device can handle 30 or 40 Amps until a circuit breaker trips or fuse blows. Most European standards such as TUV, CE, VDE, UL 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 19572 offers a resistance measurement range from 0.1 to 510mΩ. The high and low resistance limits with pass/fail indication are also user programmable.

#### Remote Control

The 19572 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 19572 can be used alone or connected to Chroma 19070 Series for complete product test with the push of one button. When the 19572 has completed a continuity test, with pass indicated, it can remotely start the 19070 Series for a hi-pot test in sequence.

#### Built-In Calibration Via Software

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

#### Model 19572



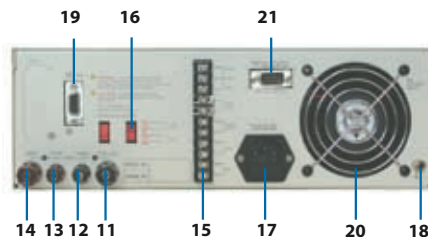
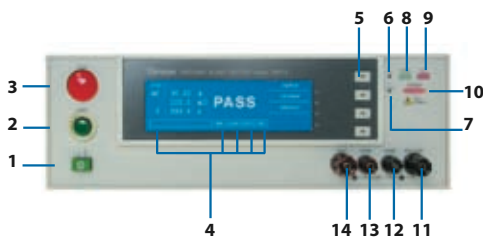
# Chroma

## SPECIFICATIONS

<b>Model</b>	<b>19572</b>
<b>Model</b>	<b>Ground Bond</b>
<b>Grounding Resistance Test</b>	
<b>Output Current</b>	AC : 3~45A
<b>Load Regulation</b>	1 % + 0.3 A
<b>Resolution</b>	3~30A 0.01A / 30.1~45A 0.1A
<b>Current Accuracy</b>	± (1.5% of setting + 0.5% of full scale)
<b>Output Frequency</b>	50Hz / 60Hz
<b>Resistance Range</b>	0.1 ~ 510 mΩ
<b>Resistance Resolution</b>	(R display counts/ I display counts) ≥ 0.2, Resolution : 1mΩ (R display counts/ I display counts) < 0.2, Resolution : 0.1mΩ
<b>Resistance Accuracy</b>	± (2% of reading + 0.5% of full scale)
<b>Offset</b>	<ul style="list-style-type: none"> <li>■ A predetermined value can be subtracted from the measured value and the result of subtraction can be display</li> <li>■ The result of subtraction can be compared with a Good/NO Good judgment reference value, and the result of comparison can be use for the Good/NO Good judgment</li> </ul>
<b>Offset Range</b>	0~100.0mΩ
<b>Test Time</b>	0.5 ~ 999.0 sec., continue
<b>Waveform</b>	Sine wave
<b>GO/NG Judgment</b>	<ul style="list-style-type: none"> <li>■ A no-good judgment is made when a resistance greater than the high limit value is detected.</li> <li>■ A no-good judgment is made when the output current is cutout and a no-good Alarm signal is delivered.</li> <li>■ If no abnormal state is detected during the test time, a good judgment is made and a good signal is deliver.</li> </ul>
<b>Limit</b>	HI-LIMIT : 0.1 ~ 510.0mΩ LOW-LIMIT : OFF, 0.1mΩ ~ HI- LIMIT Value 510.0mΩ MAX.
<b>General</b>	
<b>Operation Environment</b>	0 to 40°C (32 to 104°F), ≤ 80% RH.
<b>Power Consumption</b>	No load : < 100VA, With rated load : 880W MAX.
<b>Power Requirement</b>	AC 100V, 120V, 220V-10%, 240V-10% ~ +5%
<b>Weight</b>	< 16 kg.
<b>Dimension(W x H x D)</b>	320 x 105 x 400 mm

All specifications are subject to change without notice

## PANEL DESCRIPTION



- |                           |                                  |
|---------------------------|----------------------------------|
| <b>1. Line Switch</b>     | <b>11. Drive (-)</b>             |
| <b>2. Start Key</b>       | <b>12. Sense (-)</b>             |
| <b>3. Stop Key</b>        | <b>13. Sense (+)</b>             |
| <b>4. Status List</b>     | <b>14. Drive (+)</b>             |
| <b>5. Function Keys</b>   | <b>15. Remote I/O</b>            |
| <b>6. Cal Enable</b>      | <b>16. Line Voltage Selector</b> |
| <b>7. Update Enable</b>   | <b>17. Power Cord Receptacle</b> |
| <b>8. Pass indicator</b>  | <b>18. RTN/LOW</b>               |
| <b>9. Fail indicator</b>  | <b>19. RS-232 Interface</b>      |
| <b>10. Test indicator</b> | <b>20. Fan</b>                   |
|                           | <b>21. Remote interface</b>      |

## APPLICATION

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

## ORDERING INFORMATION

- 19572** : Ground Bond Tester
- A190701** : Remote Control Box
- A195720** : GPIB Interface
- A190510** : PRINTER Interface

Developed and Manufactured by :

### CHROMA ATE INC.

致茂電子股份有限公司  
HEADQUARTERS  
No. 66, Hwa-Ya 1st Rd.,  
Hwa-Ya Technology Park,  
Kuei-Shan Hsiang, 33383  
Taoyuan County, Taiwan  
Tel: +886-3-327-9999  
Fax: +886-3-327-8898  
http://www.chromaate.com  
E-mail: info@chromaate.com

CHINA  
CHROMA ELECTRONICS  
(SHENZHEN) CO., LTD.  
8F, No.4, Nanyou Tian An  
Industrial Estate, Shenzhen,  
China PC: 518052  
Tel: +86-755-2664-4598  
Fax: +86-755-2641-9620

JAPAN  
CHROMA JAPAN CORP.  
472 Nippa-cho, Kouhoku-ku,  
Yokohama-shi, Kanagawa,  
223-0057 Japan  
http://www.chroma.co.jp  
E-mail: info@chromaate.com

U.S.A.  
CHROMA SYSTEMS  
SOLUTIONS, INC.  
25612 Commercentre Drive,  
Lake Forest, CA 92630-8830  
Tel: +1-949-600-6400  
Fax: +1-949-600-6401  
Toll Free: +1-866-600-6050  
http://www.chromausa.com  
E-mail: sales@chromausa.com

EUROPE  
CHROMA ATE EUROPE B.V.  
Morsestraat 32, 6716 AH Ede,  
The Netherlands  
Tel: +31-318-648282  
Fax: +31-318-648288  
http://www.chroma.eu.com  
E-mail: sales@chroma.eu.com

Distributed by: