

CHROMA

19073

The Chroma 19073 is a compact, three-in-one electrical safety analyzer combining AC Hipot, DC Hipot, and Insulation Resistance (IR) testing in a single unit. It features Open/Short Check (OSC) capability, a Ground Fault Interrupt (GFI) safety mechanism, and an intuitive interface, making it ideal for testing compliance with UL, CSA, TUV, VDE, and CE standards.

SPECIFICATIONS

General

Interfaces	RS-232, Remote I/O (standard); GPIB (optional)
Display	240 x 64 matrix LCD display

Physical

Power Supply	115 / 230 V AC $\pm 10\%$, 50 / 60 Hz
Operating Temperature	0 °C - 40 °C °C
Dimensions (W×H×D)	285 x 105 x 390 mm mm
Weight	9 kg kg

AC Dielectric Withstand (AC Hipot)

AC Hipot Output Voltage Range	0.05 kV - 5.00 kV AC
AC Hipot Voltage Resolution	2 V
AC Hipot Voltage Accuracy	$\pm(1\% \text{ of reading} + 5 \text{ V})$
AC Hipot Output Frequency Range	50 Hz / 60 Hz
AC Hipot Max Rated Current	30 mA
AC Hipot Current Measurement Range	0.001 mA - 30.00 mA
AC Hipot Current Resolution	0.001 mA
AC Hipot Current Accuracy	$\pm(1\% \text{ of reading} + 5 \text{ counts})$
AC Hipot Output Waveform	Sine wave

DC Dielectric Withstand (DC Hipot)

DC Hipot Output Voltage Range	0.05 kV - 6.00 kV DC
DC Hipot Voltage Resolution	2 V
DC Hipot Voltage Accuracy	$\pm(1\% \text{ of reading} + 5 \text{ V})$
DC Hipot Max Rated Current	10 mA
DC Hipot Current Measurement Range	0.0001 mA - 10.00 mA
DC Hipot Current Resolution	0.0001 mA
DC Hipot Current Accuracy	$\pm(1\% \text{ of reading} + 5 \text{ counts})$
DC Hipot Auto-Discharge Function	Yes (within 0.2 s)

Insulation Resistance (IR)

IR Output Voltage Range	0.05 kV - 1.00 kV DC
IR Voltage Resolution	2 V
IR Voltage Accuracy	±(1% of reading + 5 V)
IR Resistance Measurement Range	1 MΩ - 50 GΩ
IR Max Charging Current	10 mA
IR Resistance Accuracy	±(5% of reading + 5 counts) for 1 MΩ to 1 GΩ (at ≥ 500 V); ±(10% of reading + 5 counts) for 1 GΩ to 50 GΩ or test voltage < 500 V

Test Control & Timing

Ramp-Up Time Range	0.1 s - 999 s
Dwell Time (Test Time) Range	0.1 s - 999 s (or continuous)
Ramp-Down Time Range	0 s - 999 s
Fast Cut-Off Response Time	0.4 ms
Fast Discharge Time	within 0.2 s

Safety & Protection Features

Ground Fault Interrupt (GFI) Trip Current	0.5 mA
Open/Short Check (OSC) Function	Yes
Safety Interlock	Yes
Arc Detection	Yes
Visual Fail/Pass Indicators	Yes
Audible Alarm Output	Yes

System, Memory & Programming

Internal Memory Capacity	10 groups, 10 steps per group
Step Link / Auto-Sequence Capability	Yes
Key Lock / Security Password Protection	Yes

Connectivity & Interfaces

Remote I/O (PLC) Interface	Standard
RS-232 Interface	Standard
GPIO (IEEE-488) Interface	Optional

Environmental & Compliance

Operating Temperature Range	0 °C - 40 °C
Operating Humidity Range	≤ 80% RH (non-condensing)

Ground Check (GC)

Ground Check Resistance Range	0.1 Ω to 5.0 Ω
Ground Check Resistance Resolution	0.1 Ω

Memory & Sequencing

Max Test Steps per Sequence	10 steps per group (10 groups, total 100 steps)
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DC Hipot

DC Hipot Ripple	< 20 V (at 6 kV DC, no load)
DC Hipot Current Limit Setting Range	0.0001 mA to 10 mA

AC Hipot

AC Hipot Output Distortion	< 2% (at no load)
AC Hipot Current Limit Setting Range	0.001 mA to 40 mA

Power Supply

Power Consumption	300 VA max.
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Safety & Protection

Zero Crossing Start	Yes
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Performance

Output Voltage Line Regulation	±1%
Output Voltage Load Regulation	±1%

Arc Detection

Arc Detection Current Limit Range	AC: 1 mA to 20 mA / DC: 1 mA to 10 mA
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Insulation Resistance

IR Resistance Limit Setting Range	1 MΩ to 50 GΩ
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TECHNOLOGY

AC/DC/IR Hipot Tester

APPLICATIONS

Electrical Safety Compliance Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.