



CRT-600A

600 A DC Contact Resistance Meter



High Current. Micro-Ohm Precision.

The CRT-600A measures the contact and loop resistance of circuit breakers, switchgear and joints at up to 600 A DC. Test current is selectable at 100, 200, 300 or 600 A from a constant-current switching supply that needs no manual adjustment.

A high test current gives a more representative reading of a contact under load, overcoming the surface films that can distort a low-current measurement. Operation is straightforward: the current and duration are set on a single screen using four keys, and the English display shows the test current and the resistance together when the test ends.

A four-terminal connection keeps test-lead resistance out of the result. Readings resolve 0.1 $\mu\Omega$ with an accuracy of 0.5% ± 2 digits, and a fast test shows its result in about 8 seconds, with timed and continuous durations for longer runs.

Results print on the built-in printer or are stored with the date and time, and the instrument travels in a rugged aluminium carry case for substation and site work.

KEY FEATURES

- 100, 200, 300 and 600 A DC test currents
- 0.1 $\mu\Omega$ resolution, 0.5% ± 2 digits
- Four-terminal method excludes lead resistance
- Result in about 8 seconds
- Built-in printer, clock and data storage

IDEAL FOR

- Circuit breaker contact resistance
- Switchgear and isolator loop resistance
- Busbar, cable and bolted joints
- Welds and high-current connections
- Substation maintenance and commissioning

TECHNICAL SPECIFICATIONS

CRT-600A Contact Resistance Meter	
Test Current	DC 100 A, 200 A, 300 A, 600 A
Measurement Range	1 – 1999 $\mu\Omega$
Range by Test Current	0 – 50 m Ω (100 A) · 0 – 25 m Ω (200 A) · 0 – 16 m Ω (300 A) · 0 – 8 m Ω (600 A)
Resolution	0.1 $\mu\Omega$
Accuracy	0.5% $\pm$ 2 digits
Method	Four-terminal (Kelvin) connection, constant-current DC from a switching supply
Test Duration	Fast · 30 s · 1 min · continuous
Test Time	Result displayed in about 8 s (fast)
Display	128 × 64 dot-matrix LCD, English
Printer	Built-in, prints the test result
Data	Clock and data storage
Interfaces	USB · RS232
Terminals	I+, I– current output · V+, V– voltage sense · earth terminal
Power	6000 W
Supply	AC 220 V $\pm$ 10%, 50 Hz · contact GPS to confirm the supply connection for your site
Working Environment	–10 °C to 40 °C · $\leq$ 80% RH, non-condensing



WHAT'S IN THE BOX

- CRT-600A main unit
- Test leads: current and voltage sense
- Power cord
- Earth lead
- Printer paper

SUPPLY · AC 220 V $\pm$ 10%, 50 Hz · 6000 W

CONNECTION · Contact GPS to confirm the supply connection for your site

GENERAL SPECIFICATIONS

Code	Item	Part Number
CRT-600A	600 A DC contact resistance meter, four-terminal, with built-in printer	On request

Specifications as published. Contact GPS for the supply connection and for any detail not shown here.

MASS

22 kg shipping weight (gross)

OPERATING

–10°C to 40°C, $\leq$ 80% RH, non-condensing

WARRANTY

1 year (subject to product registration)

DIMENSIONS

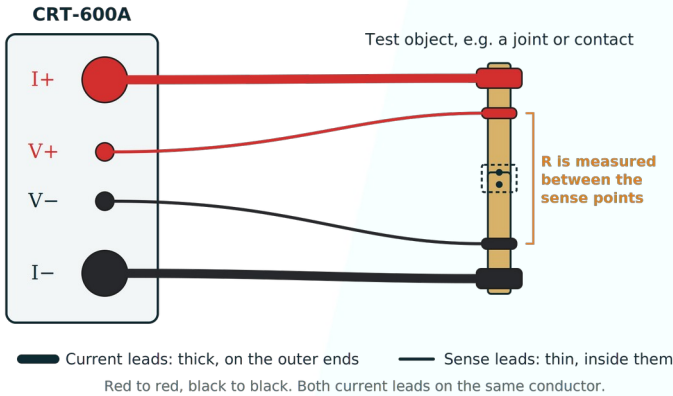
Shipping carton 500 × 440 × 460 mm

SUPPLY

AC 220 V $\pm$ 10%, 50 Hz · 6000 W

INTERFACES

USB · RS232



Four-terminal connection: current leads on the outer ends of the test object, sense leads inside them.