GROUND CONTINUITY TESTER • CMG 30

- Ground continuity from 1 mΩ to 1500mΩ
- Test current from 5 A to 30 A AC with regulation
- Current ramp
- Test voltages 6 or 12 VAC
- RS232C , PLC or IEEE488-2 interfaces
- Storing of 10 test parameters

APPLICATIONS

The instrument is made for ground continuity resistance measurements according to most of the existing and future standards in medical applications, household appliance, electrical office equipment, lighting equipment, measuring equipment, etc.

Complies with standards: EN61010-1, EN60335-1, EN60950, EN60598-1, EN60380, EN60601-1, EN60204-1, etc.

CHARACTERISTICS

Resistance measurement
- 0.001 Ω to 1.500 Ω
- display in voltage drop according to the EN60204 standard

Accuracy
- +/-(2.5% + 10 mΩ)
- Display: 1500 digits

Threshold
- High and Low limits adjustable from 0.001 Ω to 1.500 Ω
- Threshold adjustable in volt according to EN60204 standard

AC current
- 5 to 30 A AC by 0.5 A step, with load regulation
- Accuracy: +/-(1%+0.5A)
- Current can be progressively applied from 5 A to the maximum test value.
- Open circuit voltage: < 6 or < 12 VAC sinus
- Frequency: mains power supply (50 or 60 Hz)

Measurement time
- Current rise time from 0 to 999 sec.
- Hold time from 0 to 999 sec.

Storing
- 10 test parameter (current, threshold, time ,...) sets can be stored.

PROTECTIONS

Instrument
- By slow blow fuse

Operator
- No current on the outputs as long as the safety interlock is open

GENERAL CHARACTERISTICS

Presentation
- Table top unit
- Metal case

Dimensions
- Height. :131 mm
- Width. :339 mm
- Depth. :324 mm

Weight
- 12 kg

Power
- 230 V+/-10% or 115 V+/-10% single phase - 47-63 Hz
- Consumption: 70 to 600 VA depending on test

Operating temperature
- 0° C to +45° C

Storage temperature
- -10° C to +60° C

Over-voltage category
- CAT II

Pollution degree
- 2

Safety class
- Class I (earth connection)

OPTIONS

01 : RS232C (Talker - Listener) interface
02 : PLC interface
START contact
PASS and FAIL contacts
END OF TEST contact
FAULT contact
05 : Rear panel outputs not removable
06 : IEEE488-2 (Talker - Listener) interface
07 : GOOD-BAD contact
93 : Remote control box (option 02 or 07 are requested)

SOFTWARES

MG95 : Software for MG series unit used together with a relay matrix
MG96 : SMGPRO software for Home appliance test
MG98 : Labview - National Instruments drivers
MG99 : QBASIC example

OPTIONAL ACCESSORIES

TE66
- 4 wire ground continuity test probe (CO183 + CO184)

TE80
- 2 wire ground continuity test probe with remote control push button

TE81
- 2 wire ground continuity test probe with remote control push button and Pass-Fail LED (for multiple continuity)

CO160-02
- Red - Green lamp to indicate the current presence

CO183
- 2 wire ground continuity test lead with alligator clip

CO184
- 2 wire ground continuity test lead with retractable tip

AO10
- 2 hand remote control

AO11
- remote control foot switch

AO14
- 25 points multiple accessories interconnection box

KRMG3U
- 19" rack mount kit

KW
- low value resistor (to select)

CALIBRATION KIT

(STANDARD AND OPERATING MANUAL)

MG91-30A
- Calibration box for ground continuity