



# CRIT 100

Insulation tester

The CRIT 100 controls the charge of static electricity and the insulation of operators and equipment before entering a pyrotechnical area, where user's safety is at stake. Dual detection of resistance thresholds:

- Maximum value to prevent electrostatics hazards
- Minimum value to prevent industrial electric hazards

## Description

The accumulation of static electricity by an operator may lead to a degradation of quality of the products used or to a malfunction of some parts of the equipment. In some cases, static electricity may also be dangerous to the operator's safety or to his environment.

These risks may be prevented by using conductive equipment which carries electrostatic charges to the ground, thus preventing any accumulation. Operators generally wear conductive shoes, and floors are either built in constructive material or covered with conductive cloth.

Other devices, positioned at the operator's ankles or arms are also frequently used.

The main function of the CRIT 100 is to quickly check the electrical charge, insulation resistance between the operator and the floor. It can also test equipment and accessories used to protect against electrostatics hazards.

The CRIT 100 is very easy to use for all employees of a research / production site.

The test results are given through lights, digital indicator and buzzer, which can be programmed by the user. 4 thresholds are available: SNPE, AFNOR, DIN or ISO modes.

CRIT 100 measures resistances from 10 to 100,000 kOhms with test voltage of 100 V for values above 1,000 kOhms.

Dual detection for resistance thresholds:

- Maximum value to prevent electrostatics hazards
- Minimum value to prevent industrial electric hazards

Selection of 4 thresholds couples (max and min value) either:

- SNPE regulation
- AFNOR regulation
- DIN regulation
- ISO regulation

3 operating modes (multifunction connector):

- Operator test
- Accessories test
- Maintenance checking through external tester MT100

CRIT100 is battery operated with 1-year autonomy and battery life control.

# Specifications

## Insulation resistance measurement (kΩ)

Measurement and display range	Display	Resolution	Accuracy
10 to 100 000 kΩ	4 digits	10 kΩ	±5% RDG
Standard	Minimum		Maximum
SNPE	100 Ω		10,000 Ω
AFNOR	75 Ω		10,000 Ω
DIN	100 Ω		100,000 Ω
ISO	50 Ω		50,000 Ω

Threshold accuracy: ±5%

## General specifications

Dimensions	252 x 121 x 50 mm (CRIT100) 300 x 400 mm (Floor plate) 190 x 138 x 47 mm Module MT 100 for maintenance
Battery	Type : 4 x1.5 V batteries, (type LR6). Automatic turn off after 10 seconds
Watertight	IP 54
Size	CRIT100 252 x 121 x 50 mm PTCRIT100: 300 x 400 mm MT100: 190 x 138 x 47 mm
Weight	900 g
Battery	Type: 4 batteries x 1.5 V, (type LR6) Automatic turn off after 10 seconds
Material	ABS case with keyboard
IP protection	IP54 according to EN60529

## Models and accessories

### Instrument:

CRIT100                  Insulation tester

### Accessories:

PTCRIT100              Floor testing plate with serial link

MT100                   Testing module

SMCRIT100             Wall mounting frame

### Packing information:

Size                      CRIT100: 252 x 121 x 50 mm

PTCRIT100: 300 x 400 mm

MT100: 190 x 138 x 47 mm

Weight                   900 g