



BATTERY SIMULATOR

USER'S MANUAL



# PTE-FCG

REFERENCE: FCGVMV02

EDITION: MARCH 10, 2006

VERSION: 1

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**Quality is the core reference for EuroSMC's activities, aimed to fully satisfy our customers' needs and expectations.**

## DISCLAIMER

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## 1. INTRODUCTION

The PTE-FCG battery simulator is a simple, compact DC voltage source useful for supplying power to some static and electronic relays during the test process. These relays generally accept a wide range of DC supply voltage, so the three outputs in the PTE-FCG are usually suitable for the application. Furthermore, you can attach the PTE-FCG inside the lid of some relay test sets of the PTE series for your convenience.

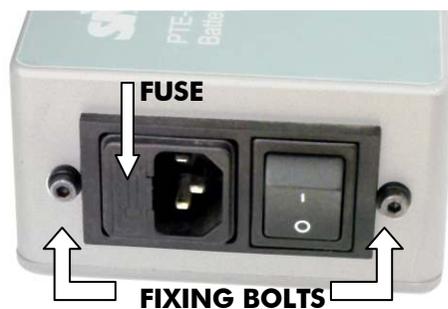
## 2. OPERATION

Prior to connecting the PTE-FCG to the relay's power input, refer to the relay's documentation for acceptable power values and polarity. Then, select one of the three PTE-FCG's available outputs (48 / 125 / 240 V) and connect the relay between the common (black, negative) and the selected output (red, positive) accordingly. Now, switch the PTE-FCG to ON to energize the relay.

## 3. PROTECTIVE FUSE

The PTE-FCG is protected by a fuse in the unit's supply block. In case the fuse is blown, replace it ONLY with one of the same rating:

PTE-FCG version	Fuse rating
230 V	0.63 A, FAST
115 V	1.25 A, FAST



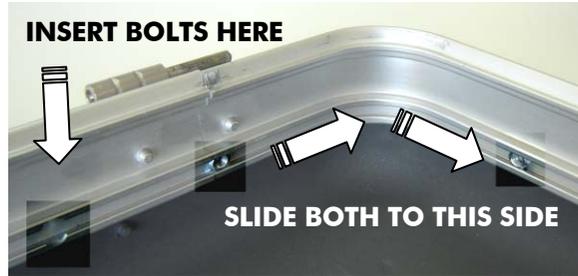
## 4. INSTALLING THE PTE-FCG

If you are using the PTE-FCG always for testing with a three-channel test set from our PTE series (PTE-50-CET or PTE-300-V), then you can install it inside the unit's lid as a convenient way of transportation. By doing this, you will also avoid leaving the PTE-FCG behind when testing in the field. The PTE-FCG is supplied with the necessary fittings for this installation. Just follow these simple steps:

- 1) Unscrew the two M6 bolts from the face opposite to the PTE-FCG supply input. You may need an *allen* tool in order to block the bolts from turning.
- 2) Take the PTE unit's lid off the main box by opening it and sliding it to the right.
- 3) Locate the hole in the inner aluminum rail, next to one of the lid's hinges. You must insert both bolts into this hole and slide them round the nearest corner to their final position. \*
- 4) Lay the PTE-FCG with the bolt ends towards the nuts and turn the bolts slightly to hold the nuts in place.
- 5) Slide the unit along the aluminum rail to place it 130 mm away from the lid's lower edge (the one with the hinges, see picture next side)\*\*
- 6) Tighten the fixing bolts using a 4-mm *allen* tool.

Slide the lid back in place and close it down smoothly to check that the installed PTE-FCG is not pressing any outstanding part on the test set's panel. If necessary, loose the PTE-FCG fittings and check again for proper position.

\*Picture corresponding to point 3)



\*\*Picture corresponding to point 5):



## 5. AFTER SALES SUPPORT

### 5.1. WARRANTY

This is an expression of trust that our products obtain, based on the reliability and functionality standards that our customers expect.

The warranty covers the free replacement or repair of defective components for one year in the terms specified in the supplied warranty statement and registration card.

Damages resulting from improper handling of the product, use outside the scope and limits of the product's specifications, negligence, installation not in accordance with the standards or warnings listed in the Instructions Manual and servicing or manipulation by unauthorized persons are not covered by the warranty.

### 5.2 CUSTOMER SUPPORT

EUROSMC guarantees the supply of materials and components for its products up to 3 years after discontinuation. This support is extendable to 5 years for technical service.

### 5.3. OTHER EUROSMC PRODUCTS

Portable Relay Test Equipment and Software

Medium & High Voltage Circuit Breaker Analyzer

Primary injection units up to 20.000 A

Digital handheld chronometer.

Digital handheld phase angle meter

Digital Portable microhmmeter up to 100 A Test current.

Test systems for automatic miniature circuit breakers.

Voltage and current regulation equipment.

Step & Touch Voltage measurement equipment