

MG 40-N MK II Current & Voltage Injection Set

by **COTEL**

- For Self- or Normally - powered Relays & Reclosers
- Large Graphic Display
- Integrated timer/recorder
- Powerful - 300 A. max
- USB backup software
- AC & DC Aux. Supplies
- Light Weight - 14Kg.
- Fully protected
- 3 Versions available



APPLICATIONS

The **MG 40S-N MK II** is a lightweight, rugged and powerful injection set which is particularly versatile and especially suited for testing relays powered by the fault current. It has specifically adapted ranges of up to 20 Amps for secondary injection into *self-powered relays* and can also give currents of up to 300 Amps for *primary injection*.

This **NEW** instrument has a generator which serves both for current and voltage, and a new generation digital measurement and recording module with a large graphic display. This enables measurement of the **true RMS** value of the current and offers advanced timing and injection control functions. Records of time, threshold and CT ratio are held in an internal Flash Memory, and can be archived and consulted later on a PC connected via **USB**.

A Current Limit can be set using the control module as a safety feature, and there is a switch to change from self powered to normally powered relay test mode.

Versions

The instrument is available in three versions. The **Basic** model has the Current & Voltage Generator, with several ranges for easy adjustment, and the digital measurement module.

The **EVO** version adds an externally reading ammeter to measure the secondary output of a **CT (ratio, direction and phase)**, and a voltmeter for the voltage output of the MG40 (min/max voltage relay, CT knee-point..)

The **PROMODEL** has all the above plus -

- An auxiliary AC voltage output on 5 terminals 25/57/100/230 Vac with 20 VA . Used for aux. AC supply verification, power relay, direction relay..
- An auxiliary DC output 24/48/110/220 Vdc. Used for powering a relay under test or for wet contacts..
- A 0 to 250 V voltage and contact switch to measure DC voltage threshold and timing for a breaker coil.

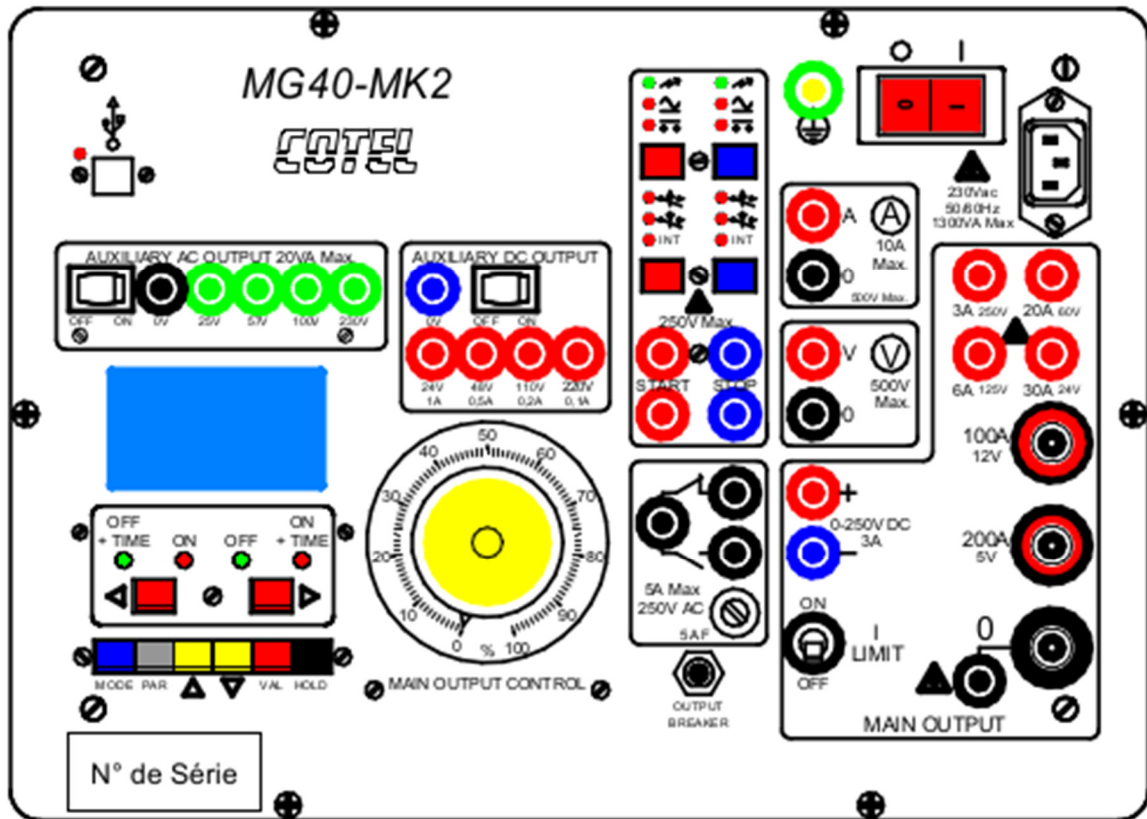
Options

- Set of injection cables in carrying case
- Archiving and analysis software

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SPECIFICATION

Rugged Waterproof Case 41 x 34 x 22cm Wt. **14 kg.**

Power Supply 230 Vac 50/60 Hz. If supplied by 115 Vac, the outputs are halved.

Maximum Power **1200 VA**

Fusing - Power Supply & Injection by breakers

Generator All versions

1 current/voltage generator, with four ranges for relays supplied by the fault current -

Current

3A., 6A., & 12A., with fine adjustment of the current

0 - 20A.

And 3 High-Current ranges

15 A. Max. voltage 24 V (32A/140sec)

30 A. Max. voltage 12 V (100A/15 sec)

70 A. Max. voltage 5 V (300 A/15 sec)

Voltage

0 - 250 Vac 2.3 Amps continuous .

Measurements -

All versions - An **ammeter** measuring **TRMS** internally with two automatically selecting ranges of **0 - 30 A** and **30 - 300 A**. Accuracy 1%

A **Chronometer** with two internal & external stop/starts by dry contact or a 12 to 250 V. ac or dc input. Range 9999.999 sec, accuracy 0.02 % +/- 1ms.

The **EVO** version also has an externally reading ammeter (auto-ranges 0 - 1 & 0 - 10 Amps) and Voltmeter (auto-ranges 0 - 150 Vac/dc & 150 - 500 Vac/dc)

The **PROMODEL** has also an auxiliary AC voltage output 25/57/100/230 Vac, 20 VA., an auxiliary DC output 24/48/110/220 Vdc., and a 0 - 250 Vac/dc (5A. Max.) power switch which can be delayed relative to the injection start by 10 to 9999ms.