

## MEBOD-SCH Breaker Test Set

by **COTEL**

- Breaker Coil & Motor testing
- Accurate, Easy to Use
- Integrated 3 Channel Timer
- Medium & High Voltage
- Powerful - 260 & 480 Vac or 230 Vdc/ 1kW
- Robust & Portable - 14 kg



### APPLICATIONS

The latest evolution of our **Breaker Tester** range is the **MEBOD-SCH**, a rugged and powerful injection set intended for -

The **function testing** of

- the opening and closing coils
- the re-closing motor
- current triggers

The **measurement** of

- Coil voltage thresholds
- opening and closing mechanism times
- Synchronisation of the poles

The **MEBOD-SCH** can inject an AC voltage up to 480 Vac or a DC voltage up to 230Vdc. There is a large LCD Graphic display of Voltage, Current, Break Times and more. and the outputs can be preset with a programmable delay before injecting to avoid overheating the coil. The DC & AC outputs can be started or stopped by the chronometer.

The **MEBOD-SCH** can be used with shunt trip and undervoltage coils, and can be used as a chronometer only.

Typical operations include finding ac or dc voltage or current thresholds, opening and closing times and checking synchronisation, as well as the timing analysis of individual poles.

### FEATURES

Rugged housing - Weighs only 14 kg.

#### Power Supply

230 Vac 50/60 Hz. 2 Ls + Earth

Fusing

Power supply - by a differential & magneto-thermique front-face breaker

Generators - by front-face circuit breakers and internal temperature monitoring.

#### Generators

Voltage generator 0 - 260 & - 480 Vac, 0 - 230 Vdc

Current Generator 0 - 25Amps ac

#### Measurements

Internal voltmeter 0 - 600 V

Internal ammeter 0 - 6 & 6 - 62 Amps ac

Digital timer with 3 individual inputs

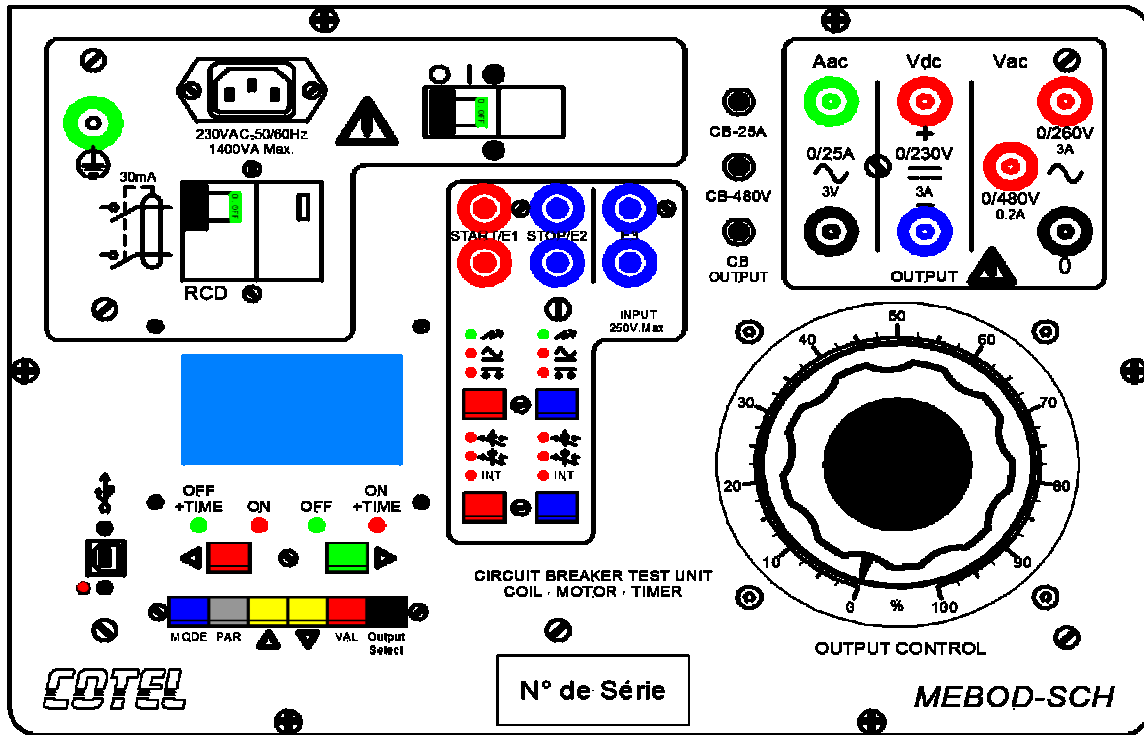
#### Graphic Display

The digital control module facilitates control and measurement by pre-setting values, limits and times of injections before start to avoid coil heating, or starting or stopping the injection as programmed. The control module can record the test results for transfer to a PC for archiving and printing.

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## SPECIFICATION

### Voltage Generator

Output 0 - 260 Volts ac 1 range adjustable 0 to 260 Vac with continuous current 3 A.

At 110 V : 330VA continuous and 990VA for 10 sec

At 230 V : 690VA continuous and 1380VA for 20 sec

At 260 V : 780VA continuous and 1560VA for 20 sec

Small variation with load. Voltage drop, <5v for 5A at 230 V., <9V for 5A at 115 V.

Output 0 - 480 Volts ac 1 range adjustable 0 to 480 Vac with continuous current 0.2 A.

At 400 V : 85VA continuous and 335VA for 5 sec

At 230 V : 100VA continuous and 400VA for 5 sec

Small variation with load.

These outputs are 4 mm. safety sockets, and are not isolated from the power supply.

Any earth fault is protected by the differential breaker .

Output 0 - 230 volt dc 1 range adjustable 0 to 230 Vdc with continuous current 3 A.

At 24 V : 72 W continuous and 120W for 30 sec, 225W for 7.5 sec.

At 48 V : 145 W continuous and 240W for 30 sec, 430W for 7.5sec.

At 110V : 330W continuous and 560W for 30 sec, 990W for 7.5 sec.

At 230V : 690W continuous and 1150W for 30 sec, 2000W for 7.5 sec.

This output can accept an overload current of 21A. for 0.7 sec.

Small variation with load. Voltage drop <12V for 5A. at 125 V. <21V. for 9A. at 230 V.

**Current Generator** This source is isolated from the power supply.

Current Output 0 - 25 Amps, overload up to 62 Amps.

At 25 A. 75 VA continuous. 30 A. 3 min., 40 A. 65sec., 50 A. 30 sec., 60 A. 15 sec.

All outputs are protected against overload currents.

### Measurements

Voltmeter - Range 0 - 600 Volts ac/dc. Accuracy <0.5% reading above 12V.

Automatic selection of ac (RMS) or dc (mean)

Ammeter - Ranges 0 - 6 & 6 - 62 A.(auto select) Accuracy <0.5% reading from 1A.

Chronometer - 3 isolated inputs. Res. 0.1 ms up to 1000 ms and 1 ms above.

Accuracy of voltage or current injection. 2ms. Pole synchronisation 0.1 ms.

The inputs are configurable as dry-contacts or voltage input - 12 to 250 ac/dc

### Accessories

Supplied with a complete set of cables and connectors