



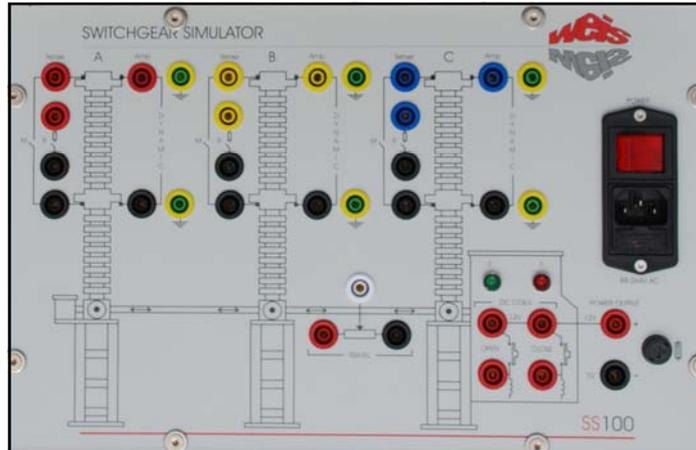
SS100

Switchgear Simulator
Breaker Testing

Switchgear Analyser

Introduction

In response to demands for safer and more convenient methods of training & demonstrating circuit breaker testing, Weis has developed the **SS100** portable **Switchgear Simulator**. It is used to simulate the basic functions of a power breaker with operate coils, timing contacts and motion sensor.



When used in conjunction with the Weis **SA100**, **SA100R**, **SA100Rs** or **SA100s** switchgear analyser / breaker tester, a variety of things can be performed including coil operation, current measurement, main contact timing, resistive contact timing, travel and velocity measurements, trip free testing, dynamic timing with both ends earthed, parallel contact switching resistor measurement.

Simulation of contact timing is made with 3 Main and 3 Resistive breaks (1 main / resistive break per phase).

Breaker motion / travel simulation is provided using a slide-wire transducer.

One set of trip and close coils with protection are simulated.



Our range of Power Test Equipment ...

- ▶ **SA100**
Circuit Breaker Test & Analysis System

- ▶ **SA100R**
Circuit Breaker Test & Analysis System

- ▶ **SA100Rs**
Circuit Breaker Test & Analysis System

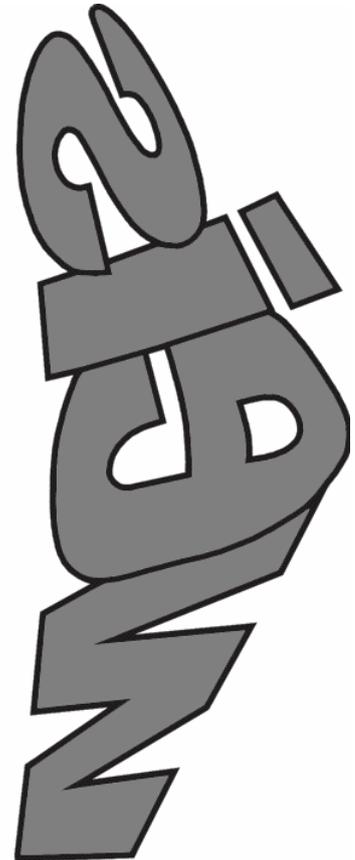
- ▶ **SA100s**
Circuit Breaker Timing Test Set

- ▶ **PS100**
Variable AC/DC Power Supply

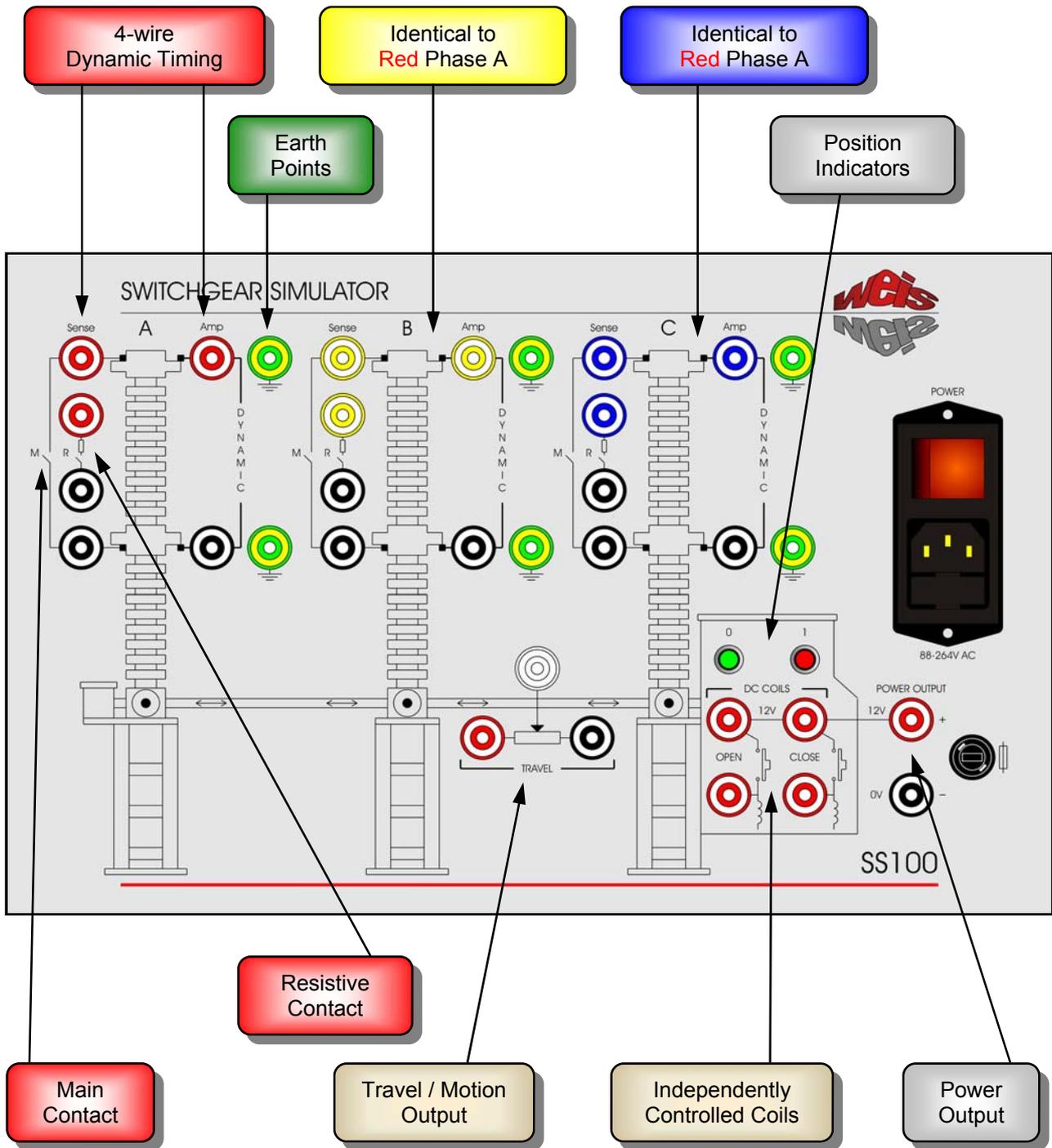
- ▶ **MM100**
Self Powered 100/1200A Micro-ohm Meter

- ▶ **RT100**
Secondary Injection Relay Test Set

- ▶ **SA200**
Automated Factory Switchgear Test System



Operation & Connections



Switchgear Simulator

SS100

Specifications

SIMULATED CONTACTS

Main: 3 x volt-free contact outputs for simulation of 1 main contact per phase.
Resistive: 3 x volt-free contact outputs for simulation of 1 resistive contact per phase.
Connectors: 4mm safety socket.

SIMULATED COILS

Coil Operation: Volt-Free pulsed contact inputs required for open (trip) and close.
Coil Peak Current: 1.4A DC.
Coil Voltage: 12V DC, fused.
Protection: Inhibit / Enable of each coil circuit to prevent continuous or simultaneous operation of coils.
Connectors: 4mm safety socket.

SIMULATED TRAVEL / MOTION

Type: Slide-wire.
Mechanical Stroke: 25mm.
Connectors: 4mm safety sockets.

MEASUREMENTS

Operation: Open, Close, Trip Free, Close-Open, Open-Close, Open-Close-Open.
Digital Timing: Main, Resistive or Main + Resistive in parallel using links provided.
Dynamic Timing: 4-wire Current Injection and Voltage Drop Sensing with option to earth both sides using links provided.
P.I.R. : Parallel contact switching resistors at 180 ohms.

GENERAL SYSTEM

Operating Time: <100mSec.
Position Indication: Green LED = Open, Red LED = Closed.
Power Output: 12V DC, 3A max.

OPERATING VOLTAGES

Prime Power: 88 to 264V AC auto-sensing via IEC power connection. Typical burden <30 VA.

ENVIRONMENTAL

Operating Temp.: -20°C to +70°C (-4°F to +158°F)
Humidity: 0 to 97% RH non-condensing.
Isolation: 2kV rms for 1 minute (channel to channel, channel to earth).
Surge Withstand: To IEC 801-5. 1.2/50µS.
(Transient) Common Mode: Severity level class 4. Series Mode: Severity level class 3.
Fast Transient Burst: To IEC 801-4 level 3.
RFI Immunity: To IEC801-3 level 3. 10V/m 26-1000MHz.
Emissions: To EN50081-1: 1992.



MECHANICAL DETAILS

Enclosure: Reinforced aluminium, 370mm(W) x 245mm(H) x 180mm(D).
Weight: <3kg.

DUE TO CONTINUING DEVELOPMENT AND IMPROVEMENTS WEIS RESERVES THE RIGHT TO CHANGE THIS SPECIFICATION WITHOUT NOTICE

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