# **SDRM202**

# Static / Dynamic Resistance Measurement Accessory for TM1800 / TM1600 / EGIL



- Enables resistance measurement on circuit breakers
- Small and light weight
- A number of operations can be run with short waiting intervals

# **Description**

The SDRM202 is an accessory for TM1800, TM1600 and EGIL. EGIL must be equipped with the SDRM option and CABA Win version R03A or higher is needed.

The SDRM202 is intended to use for both static and dynamic resistance measurements (SRM and DRM) on high voltage circuit breakers or other low resistive devices. Used together with TM1800, TM1600/MA61 or EGIL the current and also the voltage-drop across the circuit breaker contacts are measured. The measuring unit can thus calculate the resistance as a function of time.

A system consists of an SDRM202 unit with current cables and an SDRM Cable which comes in three versions, for TM1800, TM1600 and EGIL respectively. The SDRM Cable is a small box with integrated cables for connection to the SDRM202 and to TM1800, TM1600 or EGIL.



The red current cables are 3.0 m (9.8 ft) and the black ones are 0.5 m (1.6 ft).



The SDRM Cable is in three versions; for TM1800, TM1600 and EGIL. This picture shows the version for TM1800.

# Megger.

## **Specifications SDRM202**

Inaccuracy is specified for 1 year after calibration at 22 °C to 28 °C, relative humidity 90%. Specifications are valid, after 30 minutes warm up time. Specifications are subject to change without notice.

#### **Environment**

Application field The instrument is intended for use

in high-voltage substations and

industrial environments.

Installation category CATI Pollution degree

Temperature

-20°C to +50°C (-4°F to +122°F) Operating -40°C to +70°C (-40°F to +158°F) Storage & transport

Vibration IEC 60068-2-6 2 g for 5-500 Hz

Shock (non-operating) IEC 60068-2-27

30 g, half-sine, 11 ms

Degree of protection

SDRM202 (Box) and IP 43

SDRM Cable interconnected

Humidity 5% - 95% RH, non-condensing

**CE-marking** 

LVD 2006/95/EC 2004/108/EC **EMC** 

General

Dimensions 160 x 240 x 90 mm

(6.3"x 9.4"x 3.5") excl. binding

posts

11 kg (24 lbs)

Weight 1.8 kg (4 lbs)

4.3 kg (9.5 lbs) incl. current cables

Total incl. transport case

with accessories

SDRM Cable 0.2m (0.7 ft), 0.7 kg (1.5 lbs)

#### SDRM202 - Terminals

## **CURRENT OUTPUT terminals 1 and 2**

2.5 V DC (max) Open circuit

Short circuit current (max)

500 A DC Instantaneous After 2 seconds 150 A ±10%

Minimum current with cables

Instantaneous 200 A DC After 1 second 140 A DC

Overvoltage protection 45 V between terminals and

between terminals and ground

Not to be connected to circuits generating peak power pulse above 1500 W (10/1000 μs)

#### **SDRM Cable – Terminals**

#### TM1800/TM1600/EGIL

### ANALOG INPUT terminals I, and I,

12 V DC Voltage (max)

Voltage 10 V/250 A (TM1800, EGIL)

1 V/250 A (TM1600)

Short circuit current (max) 100 mA

SRM inaccuracy

TM1800/TM1600 1% ±1μΩ  $(2\% \pm 2\mu\Omega)$ 

TM1800/TM1600

#### **DRM OUTPUT terminal/TRIG terminal**

60 V DC (max) Voltage Trig threshold 9 V (min) 10 V (max) Trig current at trig threshold 40 mA (max)

**Power inlet** 

24 V / 2.5 A  $\ominus$ - $\bigcirc$ - $\oplus$ 

> Voltage 24 V DC (max) 21 V DC (min) 2.5 A (max 50% intermittence) Current

Ordering information	
Item	Art. No.
SDRM202 for TM1800	CG-90200
<b>SDRM202 for TM1800</b> Pack of 3 units (CG-90200) for circuit breaker with 2 Breaks/Phase	CG-90230
SDRM202 for TM1600	CG-90210
SDRM202 for EGIL	CG-90220
Optional accessories	
Extension cable for CG-90200 and CG-90210	
10 m (33 ft) extension	GA-12810
7.5 m (24.6 ft) extension	GA-12811
Separate SDRM Cables	
SDRM Cable for TM1800	CG-90205
SDRM Cable for TM1600	CG-90215
SDRM Cable for EGIL	CG-90225



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