

SDRM201

Static / Dynamic Resistance Measurement Accessory for EGIL



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

Description

The SDRM201 is an accessory for EGIL. EGIL must be equipped with the SDRM option and CABA Win version R03A or higher is needed.

The SDRM201 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 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 SDRM201 unit with current cables and an SDRM Cable. The SDRM Cable is a small box with integrated cables for connection to the SDRM201 and to EGIL.



The red current cable is 3.0 m (9.8 ft) and the black one is 0.5 m (1.6 ft).



The SDRM Cable.

Specifications SDRM201

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

<i>Application field</i>	The instrument is intended for use in high-voltage substations and industrial environments.
<i>Installation category</i>	CAT I
<i>Pollution degree</i>	2
<i>Temperature</i>	
<i>Operating</i>	-20°C to +50°C (-4°F to +122°F)
<i>Storage & transport</i>	-40°C to +70°C (-40°F to +158°F)
<i>Vibration</i>	IEC 60068-2 - 6 2 g for 5- 500 Hz
<i>Shock (non-operating)</i>	IEC 60068-2-27 30 g, half-sine, 11 ms
<i>Degree of protection</i>	
<i>SDRM201/202 (Box) and SDRM Cable interconnected</i>	IP 43
<i>SDRM Cable</i>	IP 41
<i>Humidity</i>	5% – 95% RH, non-condensing

CE-marking

<i>LVD</i>	2006/95/EC
<i>EMC</i>	2004/108/EC

General

<i>Dimensions</i>	160 x 240 x 90 mm (6.3"x 9.4"x 3.5") excl. binding posts
<i>Weight</i>	1.3 kg (2.9 lbs) 2.5 kg (5.5 lbs) incl. current cables
<i>Total incl. transport case with accessories</i>	9.4 kg (20.7 lbs)
<i>SDRM Cable EGIL</i>	0.2 m (0.7 ft), 0.6 kg (1.3 lbs)
<i>Extension cable</i>	7.5 m (24.5 ft), 0.7 kg (1.5 lbs)

SDRM201 – Terminals

CURRENT OUTPUT terminals – and +

<i>Open circuit</i>	2.5 V DC (max)
<i>Short circuit current (max)</i>	
<i>Instantaneous</i>	500 A DC
<i>After 2 seconds</i>	150 A ±10%
<i>Minimum current with cables</i>	
<i>Instantaneous</i>	200 A DC
<i>After 1 second</i>	140 A DC
<i>Overvoltage protection</i>	45 V between terminals and between terminals and ground
<i>Not to be connected to circuits generating peak power pulse above 1500 W (10/1000 µs)</i>	

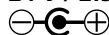
SDRM Cable – Terminals

EGIL SDRM

<i>Measurement ranges</i>	
<i>DRM / MOTION mode</i>	0 – 32 mΩ
<i>SRM mode</i>	0 – 2 mΩ
<i>DRM mode</i>	0 – 32 mΩ
<i>SRM inaccuracy</i>	2% ±2 µΩ

Power inlet

24 V / 2.5 A



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

Ordering information

Item	Art. No.
SDRM201 for EGIL	CG-90250
Optional accessories	
Extension cable	
10 m (33 ft) extension	GA-12810
7.5 m (24.6 ft) extension	GA-12811