Megger.

SDRM202

Static / Dynamic Resistance Measurement Accessory for TM1800 / TM1700 / EGIL



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

DESCRIPTION

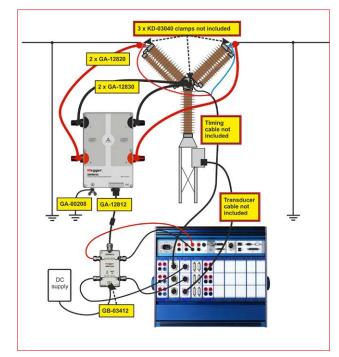
The SDRM202 is an accessory for TM1800, TM1700, and EGIL. The EGIL must be equipped with the SDRM option and CABA Win version R03A or higher is needed.

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, TM1700, 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 TM1800/1700 and EGIL respectively. The SDRM Cable is a small box with integrated cables for connection to the SDRM202 and to TM1800, TM1700 or EGIL.

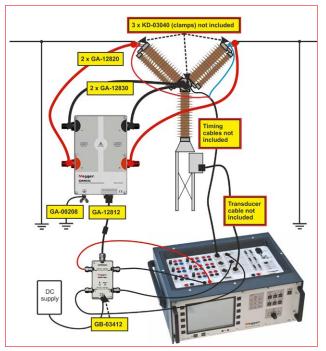
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Static / Dynamic Resistance Measurement

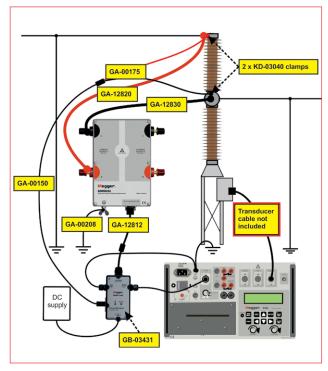


HOOK-UP EXAMPLES AND CABLE DESIGNATIONS

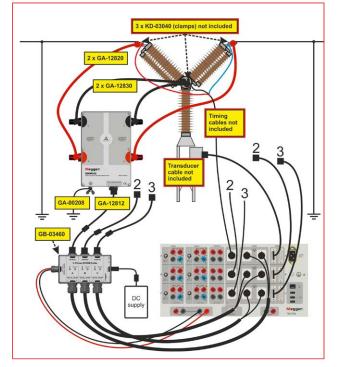
Timing cable is included with the TM1800 timing module. Transducer cable is selected together with the the type of transducer used.



Timing cable is included with the TM1700. Transducer cable is selected together with the the type of transducer used.



Transducer cable is selected together with the the type of transducer used.



The picture shows how a 3-phase SDRM Cable (GB-03460) is connected to one of the phases. Numbers "2" and "3" are correspondingly connected to phases 2 and 3.



Static / Dynamic Resistance Measurement

INCLUDED ACCESSORIES



SDRM Cable for EGIL, GB-03431



SDRM Cable for TM1700/1800, GB-03412



3-phase SDRM Cable for TM1700/1800, GB-03460



Red current cable 3.0m (9.8ft), black current cable 0.5m (1.6ft)

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

Environment		
Application field	The instrument is intended for use in high-voltage substations and indus-	
1	trial environments.	
Installation category	CATI	
Pollution degree	2	
Temperature	2006 - 5006 (405 - 42205)	
Operating	-20°C to +50°C (-4°F to +122°F)	
Storage & transport	-40°C to +70°C (-40°F to +158°F)	
Humidity	5% – 95% RH, non-condensing	
CE-marking		
LVD	2014/35/EU	
EMC	2014/30/EU	
RoHS	2011/65/EU	
Classifications and standards		
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		
SDRM201/202 (Box) and SDRM Cable	IP 43	
interconnected	10.41	
SDRM Cable	IP 41	
General		
Power inlet	24 V / 2.5 A	
	$\ominus \bullet \bullet$	
Voltage	24 V DC (max) 21 V DC (min)	
Current	2.5 A (max 50% intermittence)	
Dimensions	160 x 240 x 90 mm (6.3"x 9.4"x 3.5") excl. binding posts	
Weight		
SDRM201	1.8 kg (4 lbs) 4.3 kg (9.5 lbs) incl. current cables	
Total incl. transport case with accessories		
SDRM202 – Terminals		
CURRENT OUTPUT terminals 1 and 2		
Open circuit	2.5 V DC (max)	
Short circuit current (max)		
Instantaneous	500 A DC	
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 be- tween terminals and ground	

Note: Not to be connected to circuits generating peak power pulse above 1500 W (10/1000 $\mu s)$

SDRM Cable – Terminals

TM1800, TM1700, EGIL		
ANALOG INPUT terminals I ₁ and I ₂		
Voltage (max)	12 V DC	
Voltage	10 V/250 A	
Short circuit current (max)	100 mA	
SRM inaccuracy		
TM1800, TM1700	1% ±1μΩ	
EGIL	2% ±2μΩ	
TM1800, TM1700,		
DRM OUTPUT terminal / TRIG terminal		
Voltage	60 V DC (max)	
Trig threshold	9 V (min) 10 V (max)	
Trig current at trig thresh- old	40 mA (max)	

ORDERING INFORMATION Cat. No. Item CG-90200 SDRM202 for TM1800/1700 (1 pc) Included accessories SDRM cable TM1700/TM1800 (1 pc) GB-03412 SDRM multi cable extension (1 pc) GA-12812 HC-04211 DC supply (1 pc) Current cable, red (2 pcs) GA-12820 Current cable, black (2 pcs) GA-12830 Ground cable (1 pc) GA-00208 SDRM202 for TM1800/1700 (3 pcs) CG-90230 For 3-Phase measurement at two breaks/phase Included accessories 3-phase SDRM cable TM1700/1800 (1 pc) GB-03460 SDRM multi cable extension (3 pc) GA-12812 HC-04212 DC supply (1 pc) Current cable, red (3 pcs) GA-12820 Current cable, black (3 pcs) GA-12830 GA-00208 Ground cable (3 pcs) SDRM202 for EGIL (1 pc) CG-90220 Included accessories SDRM Cable EGIL (1 pc) GB-03431 SDRM multi cable extension (1 pc) GA-12812 DC supply (1 pc) HC-04211 Voltage sense (1 pc) GA-00175 Voltage sense extension cable (1 pc) GA-00150 GA-12820 Current cable, red (2 pcs) Current cable, black (2 pcs) GA-12830 Clamps (2 pcs) KD-03040 Ground cable (1 pc) GA-00208 **Optional accessories** Extension cable for CG-90200 and CG-90210 10 m (33 ft) extension GA-12812 Separate SDRM Cables for TM1800 CG-90205 for EGIL CG-90225

Postal address

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