SOKEN

CONTACT RESISTANCE METER

DAC-MR-100A
DAC-MR-50A

SOKEN Contact Resistance Meter, DAC-MR-100A and DAC-MR-50A are ideal for measurement at both laboratory and on-site test instantly and easily with the resolution 0.1 micro ohm.
DAC-MR-100A is for measuring current 100A, and DAC-MR-50A is for 50A.

Application

- **Contact Resistance Measurement for Power Circuit Breaker (GIS, Switch Gear)**
- **Resistance Measurement for Bus Bar and Joint**
- **Conductive Resistance Measurement for Cables**

Features

- **Light and Durable, only about 8 kg**
- **Measuring Current 100A and 50A**
- **Resolution：0.1 μ ohm**
- **Kelvin Clips for Quasi Four Terminal Measurements**

Model DAC-MR-100A/DAC-MR-50A
CONTACT RESISTANCE METER

Specifications

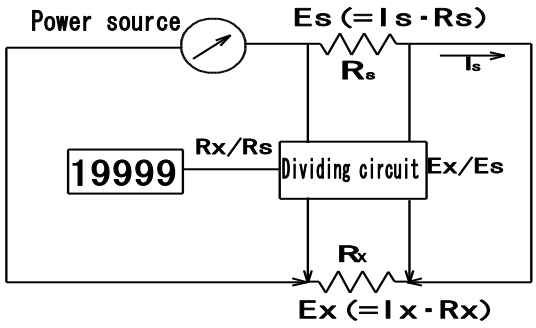
	DAC-MR-100A	DAC-MR-50A
Measuring Range	0-1.9999 m ohm	0-1.9999 m ohm 0-19.999 m ohm
Measuring Current	DC100A±3%	DC50A±3%
Resolution	0.0001 m ohm	
Accuracy	±(0.5%Rdg+3digits) at 1/10 of full scale or more ±(0.5%Rdg+10digits) at 1/10 of full scale or less	
Measuring Current Output	1.000V/100A	1.000V/50A
Display	4 1/2 digit (Max 1.9999)	4 1/2 digit (Max 19999)
Power Consumption	800VA	410VA
AC Mains	AC 100V～240V±10%　50/60Hz	
Size	W305xH245xD250(mm)	W305xH245xD250(mm)
Weight	8.4 kg	7.4 kg
Accessory	4 terminals Measuring Cable (5M) with Kelvin Clip x 1 set AC Cord (2M) x 1 Grounding Cable (2M) x 1 Operation Manual x 1 Accessory Bag x 1	

Principle

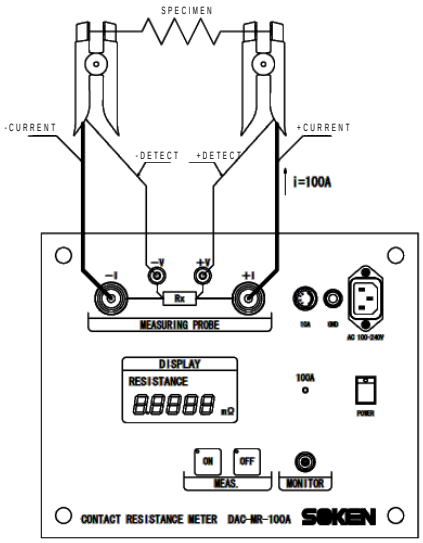
A standard resistor *Rs* is introduced into the resistance meter as in the circuit diagram.
A common current *Is* flows to both the resistor *Rs* and a specimen *Rx* under test.
Thus, voltage drop generates separately:
IsRs=Es for *Rs*, *IsRx=Ex* for *Rx*.
The measured voltages, *Es* and *Ex* are divided in the dividing circuit.

$$Ex/Es = Is\,Rx/Is\,Rs = Rx/Rs$$

A ratio of *Rx/Rs* is given digitally.



Connection



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