

NEW

PROMET



# PROMET 100

## High-Precision Ohm Meter

PROMET 100 is the new high-precision ohm meter manufactured by KoCoS to replace the SMO 100, its successful predecessor.

The device generates a stabilised true DC current of up to 100 A for measurements. Resistance is determined via high-accuracy measurement inputs using precise four-wire technology. State-of-the-art power electronics coupled with a robust design guarantee excellent reliability for use as a portable device in switching stations and industrial environments.

PROMET 100 is equipped with a special interface to the test systems of the ACTAS product range making it eminently suitable for carrying out static contact resistance measurements on switchgear equipment.



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## High-Precision Ohm Meter

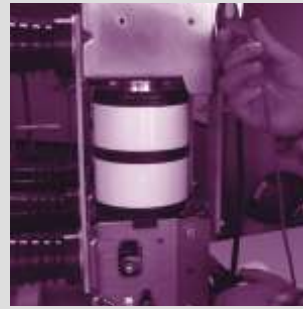
The PROMET 100 Ohm Meter has been developed using state-of-the-art power electronics able to generate a freely adjustable test current of up to 100 A which is fully independent of the supply voltage. The resistance is determined by measuring the voltage drop using four-wire measuring technology. Both the test current and the voltage drop are measured via high-accuracy measurement inputs.

PROMET 100 is operated and controlled using just four function keys and a jog dial. The current set with the aid of these controls is switched on and off via automatic ramps. This pre-

vents transient signals which can cause indirect releases to trip falsely. The resistance value determined by PROMET 100 is displayed on the LCD screen and can be saved with a time and date stamp in the internal memory.

### Applications

PROMET 100 is the ideal solution for the high-precision measurement of resistances in the  $\mu\Omega$  range. Typical applications include measuring the contact resistance of circuit breakers or disconnectors and checking welded joints and earth connections.



### Interface to ACTAS

PROMET 100 has been provided with an interface for connection to the breaker test systems of the ACTAS product range for the specific purpose of measuring contact resistance. Using the ACTAS test software it is then easy to integrate static resistance measurement in switchgear tests. The resistance value determined in this way can also be included as a result in the test report.

### Contact Resistances

Contact resistance measurement provides information on the condition of the contact system of switchgear devices in the

heavy electrical engineering sector. The contact resistance has a direct influence on the power loss which arises in connection with switchgear devices carrying currents. Measuring the contact resistance can also point to the existence of eroded contacts or loose connections in the contact system. Regular checks make it possible to identify maintenance requirements at an early stage keeping unplanned down times to a minimum for switchgear equipment.

<b>Test current</b>	adjustable	1 to 100 ADC
<b>Accuracy</b>		$\pm 0.2\%$
<b>Measuring ranges</b>	100 A	1 $\mu\Omega$ to 120 m $\Omega$
	10 A	10 $\mu\Omega$ to 1.2 $\Omega$
	1 A	0.1 m $\Omega$ to 12 $\Omega$
<b>Output voltage</b>	at 100 A	12 V
<b>Power supply</b>	90 to 250 VAC	50 to 60 Hz
<b>Operation</b>	■	Membrane keypad with 4 function keys, jog dial, PC
<b>Display</b>	■	Alphanumeric LCD, 4 x 20 characters
<b>Housing (WxHxD) [mm]</b>	257 x 160 x 316	1/2 19", 3 HU
<b>Weight [kg]</b>	9.0 kg	

Technical specifications subject to change without prior notice | © KoCoS Messtechnik AG

■ standard ■ optional