PROMET

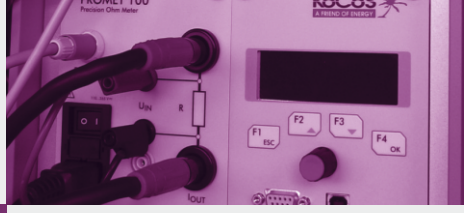
PROMET 100 / 200 / 600

High-Precision Ohm Meters

The new, high-precision ohm meters of the PROMET range deliver an adjustable test current of up to 600 A which is independent of the supply voltage.

They utilize the four-wire resistance measurement method, enabling them to meet the most stringent accuracy requirements. State-of-the-art power electronics coupled with a robust design guarantee maximum reliability, even for portable use in switching stations and industrial environments.

PROMET ohm meters feature a modern operating concept, an interface to the test systems of the ACTAS product range and an optional remote control unit, making them both flexible and versatile.



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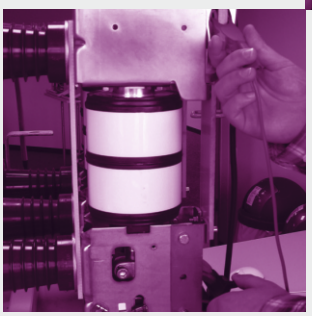

High-Precision Ohm Meters

The new ohm meters of the PROMET product range use state-of-the-art power electronics to generate a freely adjustable test current of up to 600 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. Because PROMET ohm meters can output currents for an unlimited period of time, they can also be used as current sources.

PROMET ohm meters are operated and controlled using four function keys and a jog dial. Measurements can also be controlled by means of an optional remote control unit. The freely adjustable current is switched on and off via automatic ramps. This prevents the occurrence of transient signals which could cause indirect releases to trip falsely, for example. The resistance value determined by PROMET is displayed on the LCD screen and can be saved with a time and date stamp in the internal memory.

Applications

PROMET ohm meters are ideal for high-precision resistance measurements in the µΩ range. Typical applications include measuring the contact resistance of circuit breakers or disconnectors, testing busbars and checking welded joints or earth connections.

Interface to ACTAS

PROMET ohm meters feature an interface for connection to the breaker test systems of the ACTAS product range especially for measuring contact resistance. Using the ACTAS test software, static resistance measurements can easily be integrated in automatic switchgear tests. Resistance values determined in this way can also be included as results in test reports.

Remote control unit

Once the test current has been set, up to 250 measurements can be carried out with the remote control unit which has its own measurement inputs. Visual and acoustic signals indicate the status of the measurement currently in progress.

PROMET software

A PC or laptop computer can also be connected directly to the ohm meters of the PROMET range. Downloading and managing the data saved in the device is made easy by the user-friendly software. The measurement results are displayed in a clearly structured from and can also be exported to an Excel spreadsheet or 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 influences the power loss of switchgear devices which are 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 equipment down times to a minimum.

	PROMET 100	PROMET 200	PROMET 600
Test current	5 to 100 ADC	10 to 200 ADC	20 to 600 ADC
Accuracy class	±0.1 %	±0.1 %	±0.1 %
Measuring ranges	1 µΩ to 500 mΩ	1 µΩ to 500 mΩ	0.5 µΩ to 250 mΩ
Output voltage	6 V	6 V	6 V
Operation	Membrane keypad with 4 function keys, jog dial, PC		
Display	Alpha-numeric LCD screen, 4 x 20 characters		
Remote control	■	■	■
Power supply	85 to 265 VAC, 47 to 63 Hz, 120 to 265 VDC		
Housing	3U half-rack	3U half-rack	3U three-quarter rack
Dimensions [B x H x T]	(257 x 160 x 326) mm	(257 x 160 x 326) mm	(637 x 160 x 386) mm
Weight	6.1 kg	7.6 kg	13.8 kg

■ Option

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