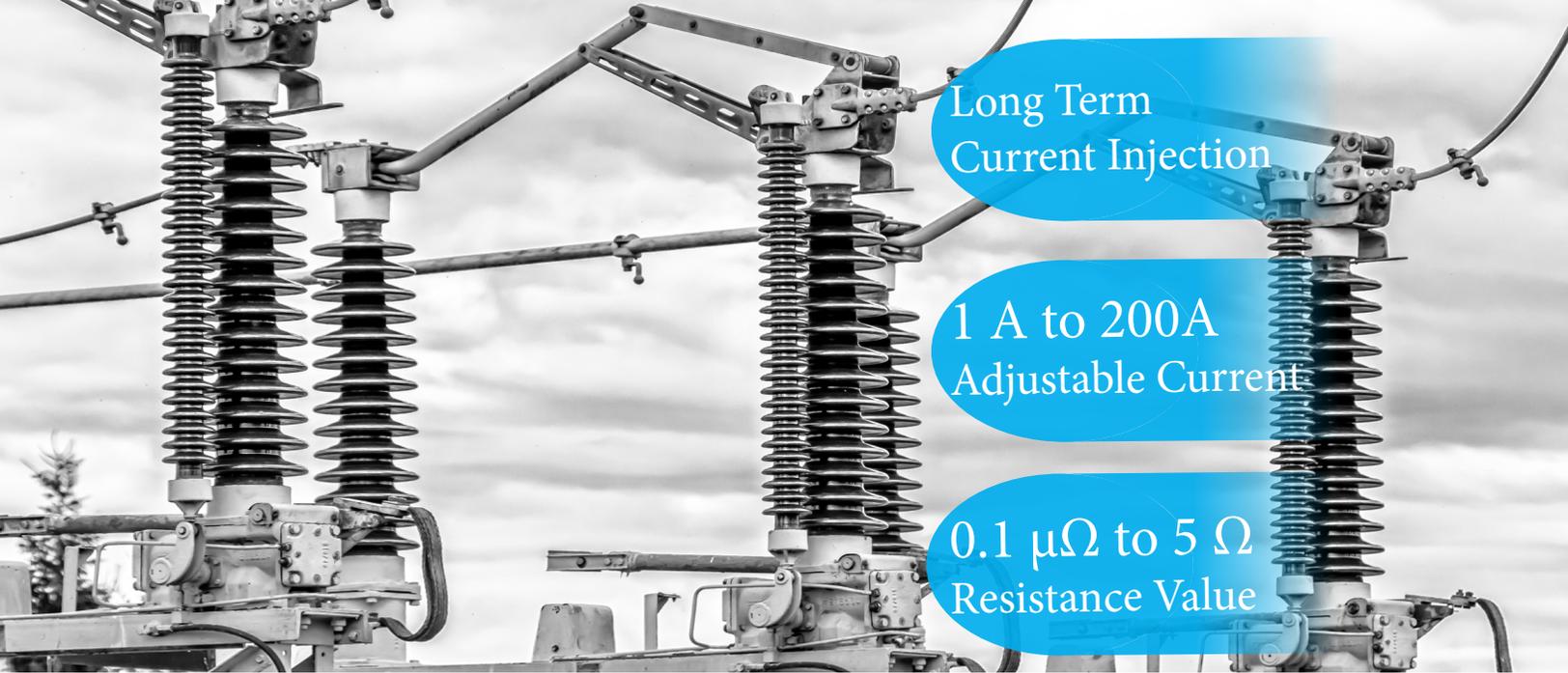




ARES-200 200 A DC Micro-Ohm Meter



Long Term
Current Injection

1 A to 200A
Adjustable Current

0.1 $\mu\Omega$ to 5 Ω
Resistance Value

ARES-200 200 A DC Micro-ohm Meter

ARES-200 is a micro-ohmmeter produced with advanced engineering technologies which can apply up to 200 A current.

With its easy-to-use software, ARES-200 can easily measure contact resistances of circuit breaker, shunt, disconnector by applying adjustable current from 1 A to 200 A.

It can calculate the real values of the resistors by providing penetration by the feature of the continuous current application. ARES-200 can measure from 0.1 $\mu\Omega$ to 5 Ω . The ARES-200 is capable of measuring static resistance of the contact points of the circuit breaker.

ARES-200 can measure idle circuit breakers as well as the earthed circuit breakers on both sides. The optional current clamp will be able to measure the part of the current going through the ground line during the test and make the calculations considering this component.

The frequently used test models can be saved as templates and the tests can be performed more rapidly and quickly. Thanks to the quick test feature of the ARES-200 user interface, the test can be performed in barely 15 seconds.

The 4.3 inches touch colour display shows all measurement results manifest on a single screen. With an easy-to-use user-friendly interface, the ARES-200 guides operators to perform tests quickly.

ARES-200's flash memory feature allows controlling, record and store measurement results (up to 100 Test Records). And also the user can copy test records by using a USB drive. Operators can easily print the measurement results with the 2.25 inches built-in printer of ARES-200 and can prepare on-field reports easily.

The HighTest data management platform (DMP software) can also use to control ARES-200 remotely by a PC and the measurement results can be easily analysed and stored in the PC.

With the ARES-200's Bluetooth option, tests can be started remotely via DMP software and the results can be transferred to the PC. Thus, on-field tests can be performed even by a single person.

With ARES-200's temperature measurement channel, the temperature values of the measured sample can be taken and calculated according to the desired temperature value. ARES-200 is a compact, rugged device with IP67 protection (case closed) which weighs 9 kg.

Why do we measure contact transition resistance at breakers?

When high current passes over the switchyard, circuit breakers open the circuits or at the points where high current passes it acts as closing switches. Resistance value that measured in periodic control of circuit breaker should be the same as the resistance value in close position which is very important for system safety.

High resistance values may cause local hotspots, voltage drops, fire risk, unplanned power failure, and extra energy loss in the system. Maximum accuracy measurement with the 4-wire method (kelvin method) will indicate whether the breaker contacts are properly contacted, if there is any corrosion on the contacts, or it shows if there is an effect that increases the resistance.

ARES-200 can flow up to 200 A current through its current cable and measure the voltage drop on both sides of the resistance with the sense terminal. Thus the calculated resistance value displayed on ARES-200 is not affected by the resistance of the measuring cable.



FEATURES

- Contact Resistance Measurement
- Adjustable Current: 1 A to 200 A
- Measurement Range from 0.1 $\mu\Omega$ to 5 Ω
- Typical Accuracy 0.1%
- Static Resistance Measurement
- Dual Ground Test mode
- Built-in Printer
- Optional Current Clamp
- Internal Memory, USB Flash Drive
- PC control via USB cable
- Bluetooth control and communication (Option)
- 4.3-inch TFT touch Display
- Protection Class: IP67 (case closed)

Technical Specifications

Measurement Parameter	Resistance
Measurement Modes	Static Resistance, Dual ground
Measurement Method	ANSI/IEEE C57.12
Test Current	1 A to 200 A
Measurement Range	0.1 $\mu\Omega$ to 5 Ω
Accuracy	Typical: 0.1% \pm 0.1% Fs Guaranteed: 0.5% \pm 0.1% Fs
Display	4.3 inch TFT touch Display (visible under sunlight)
Memory	Up to 100 records with 25 interval for each
Communication	USB, Pen drive, Bluetooth (Optional)
PC Software	DMP Software
Printer	2.25 inches Built-in Printer
Test Plan	Up to 6 plan
Current Clamp	Yes, Optional
Power Supply	100-240 V 50/60 Hz
Dimensions	16.7" x 13.4" x 6.8" (424 mm x 340 mm x 173 mm)
Weight	9 kg
Operating and Storage temperature	Working: -10 °C to + 60 °C Storage: -30 °C to 70 °C
Humidity	95% RH non condensing
Protection Class	IP67 (case closed)
Set of Package	ARES-200, Power Cable, USB Cable, 33 Feet Measurement Cable, Ground Cable, Cable Bag, 2 Printer Paper, User Manual, DMP Software
Options	Hard Carrying Case, Bluetooth, Current Clamp, Length Customised Cables

4.3-inch TFT
Touch Display

Built-in Printer

Specifications are valid under 25 °C temperature. *Contents subject to change without notice.

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HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems.

We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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