



The Auto-Ohm 200 S2 is Vanguard's third-generation, microprocessor-based, true DC micro-ohmmeter. It is designed for testing EHV circuit-breaker contact resistances, bushing contact joints, or for any low-resistance measuring application. The Auto-Ohm 200 S2 can accurately measure resistances ranging from 1 micro-ohm to 300 milliohms. It can output a test current from 10 Amperes to 200 Amperes.

The Auto-Ohm 200 S2 applies a true DC current from 10A to 200A to the resistance load to be tested. Any test current setting can be selected by using the function control knob on the front panel. The Auto-Ohm 200 S2 controls the test current's rise and fall rates by using a switching DC power supply and a current regulator circuit. An Auto Test Mode is also available and can be initiated simply by applying the sensor cables' leads across the two points of interest. This feature is very convenient when measuring a sequence of several resistance values in a breaker contact.

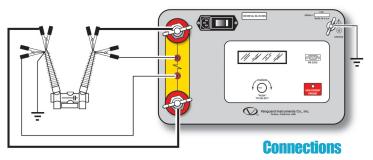
Since a true DC ramped current is passed through the breaker contacts, no magnetic transient is induced into the breaker's current transformer. This can prevent the risk of inductively tripping a breaker control (bus differential relay). The resistance reading is displayed directly in micro-ohms or milli-ohms. No calculations are required to compensate for lead resistances when using the Auto-Ohm 200 S2.

The Auto-Ohm 200 S2 features a back-lit LCD screen (1-inch high, 16 characters by 2 lines) that is viewable in both bright sunlight and low-light levels. The resistance reading is displayed on the screen until the next test is initiated. The last three resistance measurements are stored internally and can be displayed on the LCD screen. An RS-232C interface port is also provided for factory calibration and diagnostic testing.

The Auto-Ohm 200 S2 is furnished with two 30-foot test cables. Fifteen-foot test cables are also available as an option. Both cables are terminated with quick disconnect clips. Heavy-duty, welding-type, C-clamps are available as an optional accessory. These can be used to connect the test cable leads to a wide variety of bushing sizes, bus-bars and other conductors requiring low-resistance test contacts.

Accurately

- **Inexpensive**
- Reliable
- Lightweight
- **Easy to Use**



• 10 to 200 Amperes true continuous DC current

· Automatic control of current rise and fall times

Digital resistance reading from 1 micro-ohm to 300 milli-ohm

Stores and can display last 3 readings

• Weighs less than 25 lbs (11.4 Kg)



Ordering Information

Auto-Ohm 200 Series 2 True DC Micro-ohmmeter

AUTO-OHM 200 S2 &30-ft Test Cable Part No: AUTO-OHM 200 S2 AUTO-OHM 200 S2 Carrying Case 15-foot Test Cable 30-foot Test Cable

C-Clamp Set (2 clamps) Handspike Set (2 probes)

Part No: AUTO-OHM 200 S2 Case Part No: AUTO-OHM S2 Cable-15ft Part No: AUTO-OHM S2 Cable-30ft Part No: AUTO-OHM S2 C-Clamps-30ft Part No: Handspike

rue DC Micro-ohmmeter

Resistance from 1 micro-ohm to 300 milli-ohms



SPECIFICATIONS

TYPE Portable micro-ohmmeter

PHYSICAL SPECIFICATIONS 16.8"W x 12.6"H x 12.0"D (42.7 cm x 32.0 cm x 30.5 cm); Weight: less than 25 lbs (11.4 kg)

INPUT POWER 100 – 240 Vac, 50/60 Hz

RESISTANCE READING RANGE 1 micro-ohm – 300 milli-ohms (1 micro-ohm resolution); Accuracy: ±1% reading, ± 1 count

TEST CURRENT RANGE Thermally-protected DC power supply, 10 Amperes – 200 Amperes

TEST DURATION 5 seconds – 120 seconds, selectable

DISPLAY 1-inch high back-lit LCD Screen (16 characters by 2 lines); viewable in bright sunlight and low-light levels

INTERNAL TEST RECORD STORAGE Stores and can display last 3 readings

COMPUTER INTERFACE RS-232C port (19,200 Baud) for factory calibration and diagnostics

SAFETY Designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2 standards

ENVIRONMENT Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)

CABLES 30-foot (#1AWG) test cables, ground cable, power cord

OPTIONS Transportation case, 15-foot test cables, C-clamps, Handspike

WARRANTY One year on parts and labor

Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

