

UED SERIES



MODELS

314, 334, 354

MICROPROCESSOR CONTROLLED

- ✓ **OUTPUT VOLTAGE:**
UP TO 5 / 3 / 1,5KVAC
- ✓ **OUTPUT CURRENT:**
UED-314 UP TO 5mA
UED-334 UP TO 5mA
UED-354 UP TO 10mA
- ✓ **DIGITAL ADJUSTABLE CHRONOMETER**
- ✓ **ALPHANUMERICAL DISPLAY**
- ✓ **PROGRAMMABLE KEYBOARD MODULE**
- ✓ **LIGHT AND SMALL CABINET**
- ✓ **MICROPROCESSOR CONTROLLED**
- ✓ **LEDS INDICATORS AND AUDIBLE ALARM**

HI-POT MICROPROCESSED MEGABRAS UED-354/334/314 is the latest-generation instrument for dielectric tests. Its built-in microprocessor allows to program voltage, time and break induced current.

Voltage output of alternated current can be adjusted up to the nominal voltage of each model.

Its built-in and high-precision chronometer allows to program tests' time.

It can adjust the break induced current limit.

The alphanumeric display shows the voltage value at which the test is carried out; and the electrical current which is going through the insulation of tested sample which can be resistive, capacitive or inductive and the time that this process has taken. Its also shows the programmed parameters with the PRM-100 Programmer (An independent module with keyboard that allows to program the electrical limits).

The equipment made by MEGABRAS uses static technology and microprocessor-control, being different from old Hi-Pots with variable auto-transformers.

UED SERIES - TECHNICAL SPECIFICATIONS

ADJUSTMENT RANGE OF OUTPUT VOLTAGE

UED SERIES	MIN. VOLTAGE	MAX. VOLTAGE
UED-314	200V~	1,5kVac
UED-334	400V~	3kVac
UED-354	600V~	5kVac

OUTPUT CURRENT

UED-314 up to 5mA
UED-334 up to 5mA
UED-354 up to 10mA

ADJUSTMENT RANGE OF INTERNAL CHRONOMETER

Test Time: It can be programmed up to 600 seconds.

ADJUSTMENT RANGE OF CURRENT THRESHOLD

UED-314 up to 5mA
UED-334 up to 5mA
UED-354 up to 10mA

VOLTMETER ACCURACY

+ 3% of measured value + 0,05 kV

TEST-VOLTAGE ACCURACY

Replicability: $\pm 3\%$ of programmed value $\pm 0,05 \text{ kV}^1$
Stability: + 3% of programmed value + 0,05 kV^2
1 With main nominal supply voltage + 1%
2 Idem

MILLIAMMETER ACCURACY

+ 5% of measured value + 0,1 mA

CHRONOMETER ACCURACY

$\pm 0,5\%$ of measured value $\pm 0,5$ seconds

CURRENT-THRESHOLD ACCURACY

+ 10% of programmed value + 0,1 mA
Its display is alphanumeric with indicating notes useful to help this equipment's users. It has a soft back-light in order to be able to see the display readings within badly lighted environments.

Leds indicators of APPLIED VOLTAGE: tests with 'good' results and tests with 'wrong' results.
Audible alarm that tells about testing end, with differentiated sounds according to the result.

PRM-100 PROGRAMMER' (Programming module)

An independent module with keyboard that allows to program various parameters (voltage, current and time) of Hi-Pot. These parameters are permanently memorised in the equipment up to the point it is necessary to change them for a new programming. This program can not be carried out or modified without the use of the programming module (that can be unplugged), and this provides absolute assurance against any incidental alteration of initially programmed parameters.

OPERATOR SECURITY

Due to the high voltages used, it is very important to take into account the operator security. The project of MEGABRAS test-equipment has paid special attention to this point.

CABINET

Made of high-dielectric resistant plastic. Except for output terminals, which are isolated and placed in the rear panel, there are no other conducting parts near the operator.

HIGH-VOLTAGE LIGHT INDICATOR

A LED indicator tells about high-voltage presence in the output terminals during measurements.

WEIGHT AND SIZE

220 x 140 x 190 mm (cabinet outer parts)
3.5 kg (including equipment, programming module, handbook and terminals probes)

SUPPLIED ATTACHMENTS

A set of terminal probes used for High Voltage
Power-supply cable with a tripole-jack "NEMA"
Users' manual
Programming module PRM-100

POWER SUPPLY

HI-POT UED-SERIES are powered with 110 or 220 Vac.

OPERATING ENVIRONMENTAL CONDITIONS

This equipment can only be used in closed environments. Room temperature can vary between 0 and 45 °C, and humidity can reach 90% RH without altering Hi-Pot performance.

Technical modifications reserved.



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