



Datasheet



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MAGNUS™

Step-Up Transformer

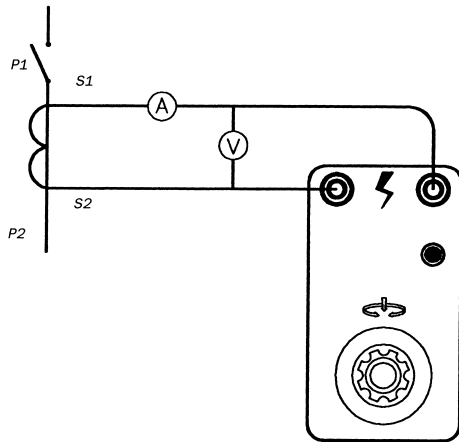
When power systems are put into operation or when faults occur, it becomes necessary to check the instrument transformers to make sure that they are providing test instruments and protective relay equipment with the correct outputs.

MAGNUS™ permits you to prepare excitation curves for instrument transformers quickly and easily.

MAGNUS™ is also used to demagnetize current transformer cores and to conduct turn-ratio tests on voltage transformers. Even though it weighs only 16 kg (35 lbs), it provides 1 A at 2.2 kV. Two-hand control enhances personal safety.

As standard, MAGNUS™ is delivered with a special high-voltage cable and a robust transport case.

APPLICATION EXAMPLE



Prepare an excitation curve

1. Connect MAGNUS to the secondary side of the current transformer being tested and also to an ammeter and voltmeter.
2. Increase the voltage with the dial.
3. Jot down the values of U (voltage) and I (current).
4. Repeat steps 2 and 3 until the current (I) rises sharply without any significant rise in voltage (U).
5. Conclude the test by reducing U (voltage) slowly to zero, thereby providing demagnetization.

SPECIFICATIONS

Outputs

Output voltage, high-voltage output	0-2200 V AC or 0-2000 V AC*, 1 A for 30 s.
Output voltage, variable transformer	0-250 V AC or 0-115 V AC*, not isolated from mains.

* Only for the version that operates on 115 V mains voltage.

Measuring outputs

Voltage Accuracy	100/1, (max load of 1 M Ω) 1.5%
Current Accuracy at 1.5 VA	10/1 1.5% at 1 A output current 3% at 0.5 A output current

Other

Application field: The instrument is intended for use in high-voltage substations and industrial environments.

Protection: Thermal cut-outs.

Mains voltage: 115 or 230 V AC \pm 10%, 50-60 Hz

Power consumption: 2300 VA

Dimensions instrument: 356 x 203 x 241 mm (14" x 8" x 9.5")

Dimensions transport case: 610 x 290 x 360 mm
(24.0" x 11.4" x 14.2")

Cable set: Connection cables, 2 x 5 m (16 ft)/1.5 mm², 15 kV. Always delivered with the MAGNUS.

Weight: 16.3 kg (35.7 lbs). 24.8 kg (54.7 lbs), with accessories and transport case.

Warranty: 1 year

The above specifications are valid at nominal input voltage and an ambient temperature of +25°C (+77°F).

Specifications are subject to change without notice.

ORDERING INFORMATION

Magnus Step-Up Transformer

Complete with cable set GA-00090 and transport case GD-00182.

Mains voltage: 115 V

Art.No: BT-11190

Mains voltage: 230 V

Art.No: BT-12390



Cable set GA-00090

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a world class service, every day,
in every sector...

LOCATIONS

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