

# MODEL 615

## ARM MAGNETIZER

### FEATURES

- Supports DC magnetic fields from 0 to  $\pm 4$  Gauss
- Can energize two coils
- Supports manual or computer control
- Displays magnetic field on the front panel
- In conjunction with the Model 855, in-line Degausser and IRM subsystems, speeds up and streamlines the measuring process by combining measurements into one system

### APPLICATIONS

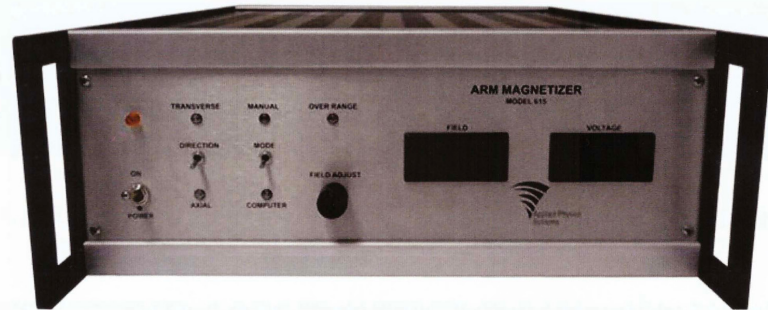
- Paleomagnetic Research

The Model 615 ARM (Anhysteretic Remanent Magnetizer) enables magnetization of rock samples during demagnetization with an SRM (Superconducting Rock Magnetometer) system. The rock magnetization is achieved by applying a DC magnetic field during the degaussing process.

The Model 615 ARM Magnetizer is capable of energizing two coils, typically an axial solenoid and a transverse Helmholtz pair. The field application coils are mounted to the degaussing coils of the SRM's degaussing system.

For axial discrete samples, the field application coil consists of a solenoid mounted inside the axial degaussing coil.

For a transverse Helmholtz pair, the field application coils are mounted to the inside face of the transverse degaussing coils.



For long-core systems, the field application coil consists of a long solenoid extending through the axial degaussing coil from one end of the degausser mu-metal shield to the other.

An ARM electronic system consists of a constant current source, which enables the creation and maintenance of a DC magnetic field even though the degaussing coils create large back-EMF.

The magnetic field can be set either manually or by computer command if the system is equipped with a single-board computer interface option. For both manual and computer operation, the actual magnetic field present is displayed on the front panel.

**PERFORMANCE**

Field Application Range	0 to $\pm 4$ Gauss
Field Accuracy	$\pm 2\%$
Field Uniformity over Sample Volume	5% for a discrete sample 2% for a long core (over solenoid)

**ELECTRICAL**

Constant Current Compliance Voltage	80 V peak-to-peak
Power Supply	115 V@ 1 A or 230 V@ .5 A

**PHYSICAL**

Length	19" (482.6 mm)
Width	12" (304.8 mm)
Height	5" (127 mm)
Weight	10 lbs (30 kg)

*Specifications are subject to change without notice.*