

“NEOARK” Magneto-Optics Effect Measuring Equipment BH-620LP

Summary

This is the high sensitivity device for perpendicular and in-plane high magnetic field Kerr magnetized curve measurement by circularly polarized light modulation method, under the theory of Magneto Kerr Effect Measurement. Selection of perpendicular or in-plane direction measurement can be easily made by the change of optical unit arrangement on optical frame.

Kerr B-H loop signal obtained by measurement is input into personal computer through an interface like as AD board. And they are analyzed and saved by the exclusive use software.



Measuring Items

Observation and recording of Kerr magnetized curve for perpendicular and in-plane of a sample
(Kerr rotation angle measurement, Kerr ellipticity measurement)

Specification

1. Detecting Unit

1) Kerr B-H measuring device

* Laser light source

Laser

LD laser or HeNe laser

Wavelength

630nm – 690nm (one wavelength out of this range)

* Modulator

Modulating method

Circularly polarized light modulation

2) Electromagnet

* Electromagnet

Type of electromagnet

Iron core DC electromagnet

Max. oscillating magnetic field/gap of magnetic pole
(Magnetic pole exchange type)

10Koe / 15mm

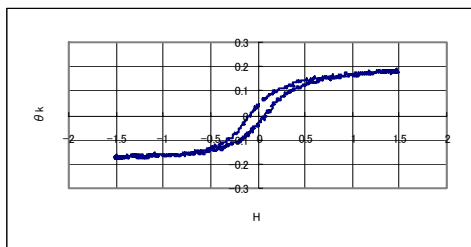
or 5Koe / 30mm

2. Electrical Unit

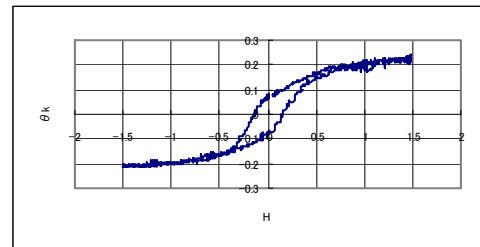
- 1) Power supply for magnetization
- 2) Personal computer
- 3) Software
- 4) Utilities

* Applicable power supply	AC100V, 50/60Hz, 3kVA
* Approx. dimension (in mm) / weight	
Detecting device	1200W X 600D X 1200H / 250Kg
Power supply for magneto excitation	600W X 600D X 700H / 70Kg
PC with rack	600W X 600D X 1500H / 50Kg

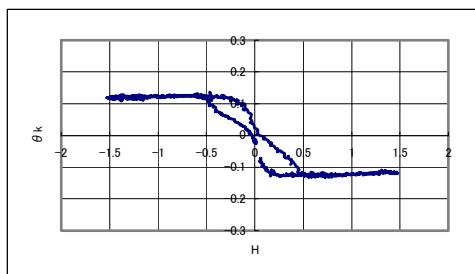
* Data samples by courtesy of Dr. Singuhara, ADSM, Hiroshima University



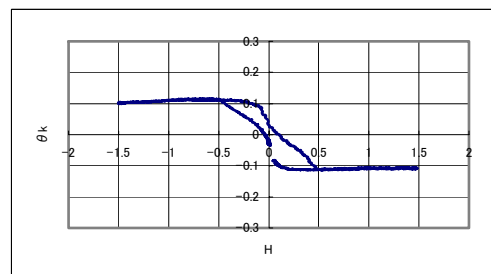
0.1 micro m in circle



0.1 micro m in square



0.2 micro m in circle



0.2 micro m in square



NEOARK Corporation, Osaka Office

10-6 Chayamachi, Kita-Ku, Osaka, 530-0013, Japan

Phone: 81-6-6371-3527, Fax: 81-6-6376-4560

e-mail: osaka@neoark.co.jp Web: <http://www.neoark.co.jp>