GOULD-BASS
A Total Concept Company
NDT DIVISION

Model MD-220

HALL EFFECT MAGNETIC FIELD STRENGTH METER

FEATURES / BENEFITS

- Fully protected removable Hall Effect Probe
- Meets AMS, ASTM & Mil Standards
- NIST Traceablilty assures meter accuracy
- Range of 0 to 199.9 Gauss, either polarity
- Battery or AC operation modes
- Includes rechargeable battery and charger
- Easy to read Liquid Crystal Display
- Reads AC and DC fields
- Meter accuracy within 2%
- Sample & Hold feature retains previous readings
- Durable Molded case withstands rugged NDT use
- Indicates field polarity
- Alignment fixture included

The Gould-Bass Model MD-220 Magnetic Field Strength Meter is a portable handheld instrument with three and a half digit display that measures magnetic field strength. It combines the latest digital display and "Hall Effect" technology into a functional, rugged, and aesthetic design. The handheld meter provides the user with an easy means for accurately measuring magnetic fields.

The easy to read liquid crystal display indicates the magnetic field present at the hall effect sensor. The MD-220 Field Strength Meter is designed to measure, in gauss, the AC and DC fields as required during magnetic particle inspection.

Unlike analog magnetic field indicators, the Gould-Bass MD-220 is not damaged by intense magnetic fields, even though they may far exceed the range of the meter.

Technical Data	
	MD-220

Model Number	Buy Now!
Part Number	N501196001
Display Range	0 to 199.9 gauss
Display Type	0.35" Liquid Crystal Display
Accuracy	within 2%
Sampling Time	0.3 Seconds
Resolution	0.1 Gauss
Power Requirements	9 Volt Rechargeable Battery (included) AC Adapter / Battery Charger (included)
Current Drain	25 milliamperes (approx.)
Battery Life	4 Hours between charges
Temperature Range	0 to 50 deg. C (32 to 122 deg. F)
Humidity Range:	0 to 100% R.H. *(Non-condensing)*
Dimensions: **- Readout Unit Only** **- Hall Effect Probe** **- MD-220 in Polymer Case**	 5.8" x 3.6" x 2" 3/16" x 3/8" x 2" w/ 3' cable & plug 10" x 7.5" x 3"
Weight: **- Readout Unit Only** **- Hall Effect Probe** **- MD-220 in Polymer Case**	 235 Grams 8.3 oz. 32 Grams 1.7 oz. 1.8 lbs.
Recommended Calibration Interval	The MD-220 should be returned to the factory every six months for recalibration and routine inspection service. The recommended six month interval is based upon normal usage of intermittent readings. If the the unit is used continuously, recalibration should be performed more often.

Method of Operation

Operating Instructions

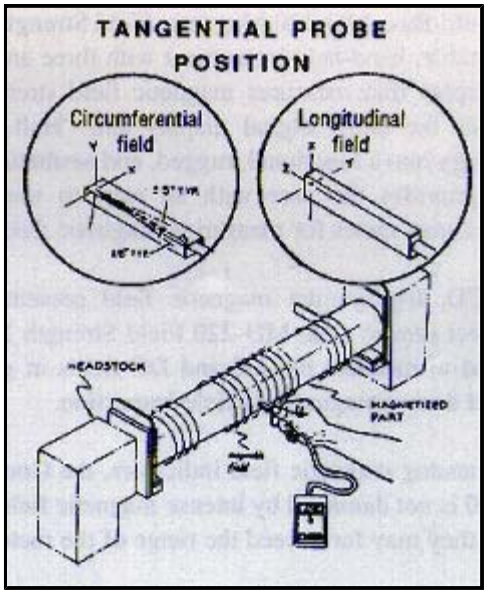
1. Charge 9 volt battery or attach the AC adapter prior to use.
2. Plug the the Hall Effect Probe into the readout unit.
3. Turn the selector switch to the desired mode (see below).
4. Position the MD-220 probe on the part surface as illustrated.
5. Energize the magnetic particle inspection machine to generate the magnetic

field to be measured. If measuring residual field, place the residual field adapter over the end of the hall effect probe.

6. Observe the field strength reading on the LCD.

Three Operating Modes:

1. Measures DC or residual fields on a continuous basis. Polarity is displayed in this mode.
2. Measures AC or DC fields by the "sample and hold" method. The peak reading is held. The display holds the previous reading until a new field is introduced. Polarity is not displayed in this mode.
3. Measurers AC field on a continuous basis. Polarity is not displayed in this mode.



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