

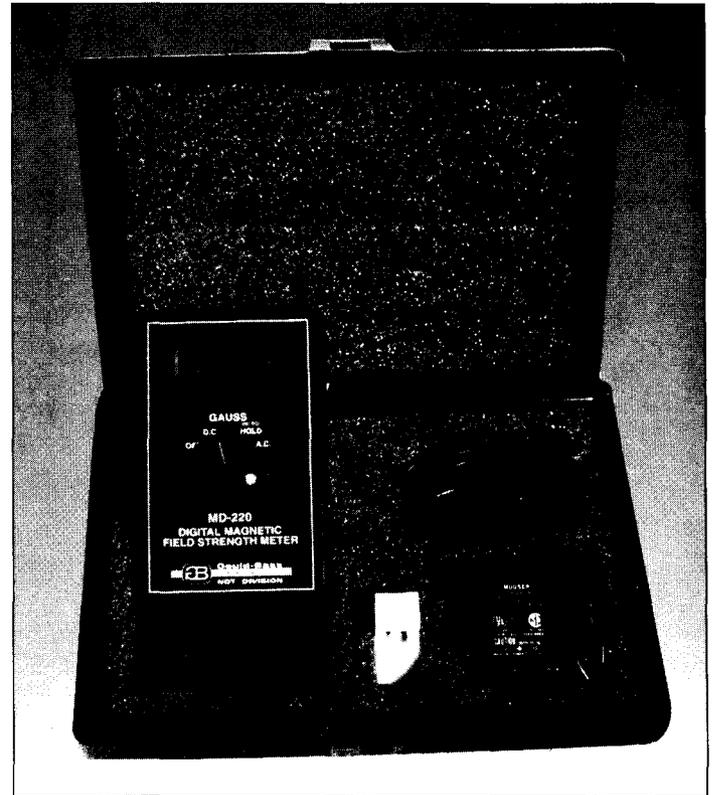
DIGITAL HALL EFFECT MAGNETIC FIELD STRENGTH METER

DESCRIPTION

The Gould-Bass MD-220 Magnetic Field Strength Meter is a portable, hand-held 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 which provides the user with an easy to use, hand-held, accurate meter for measuring magnetic fields.

The LCD displays the magnetic field present at the hall effect sensor. The MD-220 Field Strength Meter is designed to measure the AC and DC fields in gauss 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.



FEATURES

- ◆ Meets AMS, ASTM & Mil Standards
- ◆ Fully protected removable Hall Effect Probe
- ◆ N.I.S.T. Traceability
- ◆ Range of 0 to 199.9 Gauss, either polarity
- ◆ Battery or AC operated
- ◆ Liquid Crystal Display
- ◆ Supplied in a durable molded case
- ◆ Simple & easy to use
- ◆ Reads AC & DC fields
- ◆ Sample & Hold
- ◆ Not damaged by strong fields
- ◆ Indicates field polarity
- ◆ Alignment fixture included

BENEFITS

- ◆ Compliance to MPI Process Specs
- ◆ Withstands rugged NDT use
- ◆ Assures 2% meter accuracy
- ◆ Reads full MPI range
- ◆ Uses rechargeable battery with charger
- ◆ Easy to read, long battery life
- ◆ Storage space for all items
- ◆ Direct readings, no lengthy setups
- ◆ Reads residual, active, mag & demag
- ◆ Retains previous readings
- ◆ Less care required when using
- ◆ Identifies north & south poles
- ◆ Assures repeatable readings

TECHNICAL DATA MODEL MD-220

1. "HALL EFFECT PROBE"

Size: 3/16" x 3/8" x 2" with a 3' cable & plug

2. READOUT UNIT

Display.....0.35" Liquid Crystal Display (LCD)
Sampling Time.....0.3 Second
Range.....0 - 199.9 Gauss
Resolution.....0.1 Gauss

3. POWER REQUIREMENTS

Battery Operation.....A Rechargeable 9 Volt
Battery is provided, along
with an AC Adapter/
Battery Charger
Current Drain.....25 M.A. Approx.
Battery Life.....4 Hours between charges,
continuous operation with AC
adapter.

Method of Operation

1. Remove the MD-220 from the storage case.
2. Charge 9 volt battery or use AC adapter. Attach probe and switch the MD-220 to the desired position.
3. Position the MD-220 probe on the part surface as illustrated in the diagram.
4. Energize the magnetic particle inspection machine to generate the magnetic field to be measured. If measuring a residual field, place the residual field adapter over the end of the hall effect probe.
5. Observe the field strength reading which is displayed digitally.
6. Switch to "off" position.

Care and Maintenance

1. Recharge the battery at regular intervals.
2. Meter enclosure may be cleansed with soft cloth slightly dampened with water or soap and water. Do not use solvent.
3. When not in use, return clean unit to its carrying case.
4. It is recommended that the MD-220 be calibrated at six month intervals.

4. TEMPERATURE RANGE

Operation.....0° to 50° C (32° to 122°)
Storage.....10° to 50° C (14° to 122°)

5. HUMIDITY RANGE

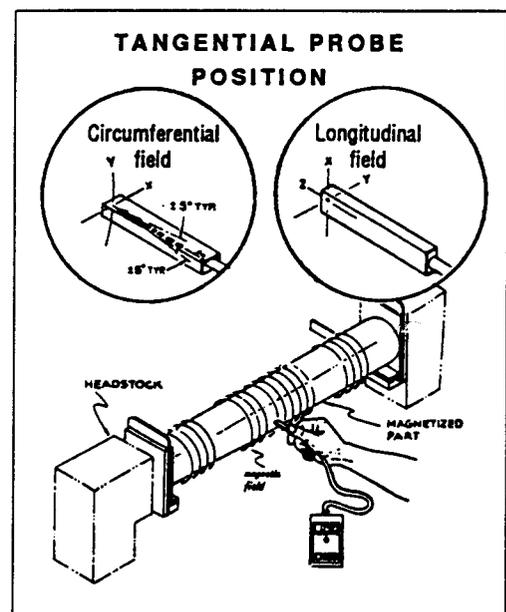
0 to 100% R.H. Non Condensing

6. DIMENSIONS

Readout Unit.....145mm x 92mm x 50mm
.....(5.8") X (3.6") x (2")

7. WEIGHT

Readout Unit.....235 Grams 8.3 oz.
Probe.....32 Grams 1.7 oz.



The MD-220 has 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. Measures AC field on a continuous basis. Polarity is not displayed in this mode.

For further information please contact:



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