

Magnetic Field Strength Meter MD-220

Model Number	MD-220
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. (<i>Non-condensing</i>)
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.

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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. Measures AC field on a continuous basis. Polarity is not displayed in this mode.

