

DC GAUSSMETER GSMT 01592

With Flexible probe tip



Product Description:

The Model 1-ST measures strength and polarity of magnetic fields up to 19,999.9 gauss. The sensor can easily fit in a 1.5mm gap and is at the end of a 100 cm flexible cable. The sensor end can be bent if required for a variety of situations. Place the sensor on a magnet face to measure the field. With a resolution of 0.1 gauss, it can measure any tiny variation from magnet to magnet or it can detect if a given magnet has lost even a little strength. Bend the sensor in to a "L" to measure inside a DC solenoid tube. The 5 ½ digit display requires neither auto nor manual range change, making it a simple instrument to use. Turn on the meter and immediately begin reading fields (updates 4 times per second). There is no setup required, making this the fastest, easiest gauss meter available.

Features

- High dynamic range 5 ½ digit display reads even the strongest magnets with .1 gauss resolution, including polarity.
- Turns on instantly, updates four times a second, no setup or initial calibration required.
- Auto-Zero (subtracts the present field from subsequent readings); also a fine offset control.
- Offset range is the full +/- 19,999.99 gauss.
- 1% accuracy at room temperature, including probe.
- Probe and battery included.
- Rubber boot and stand
- CE Compliant.

Applications

- Measures all permanent magnets. (Maximum field of magnets is about 15,000, which occurs only with rare-earth magnets in a gap configuration.)
- High resolution of 0.1 gauss over the entire range of +19,999.9 to -19,999.9 gauss allows detection of any variation in field from a magnet.
- Measures inside DC Solenoids (probe is bent into "L" shape to measure this).
- Sufficient resolution to map fields far from magnets.

SPECIFICATIONS: 1-axis DC Gauss meter GM1-ST	
Range/Resolution:	19,999.9 G/0.1 G; with polarity indicator
Accuracy:	+/- 1% of reading (16° to 29°C); +/- 2% (-4° to 65°C)
Offset:	Auto-Zero. Also fine offset (0.1 gauss resolution)
Probe (non-detachable):	1.5 (thick) x 4.3 x 24 mm
Meter Size:	5.2 x 3.6 x 1.6 inches; 132 x 91 x 41 mm
Weight:	8 oz
Battery:	9 volt alkaline (~ 40 hour life) / "Low Battery" indicator

Recalibration service available

General Operation

Turn the meter on by pressing 'POWER' for at least a second.

The sensor is at the end of the long flexible probe. Place the flat end of the tip of the probe onto the surface or in the space where you want to measure.

Immediately there will be a reading in Gauss.

For negative (South) fields the reading will show a negative symbol (-) before the numbers displayed. A positive (North) field will just show the numbers.

If the display reads 'LO BATT' then there is about one hour of battery life remaining. To replace the battery, remove the rubber surround and stand and then slide back the battery cover. The meter takes a standard 9v rectangular Battery. Replace the cover and rubber boot and then press 'POWER' twice. A fully charged battery will provide approx 40 hrs continuous use.

Offset Adjustment.

This allows you to add or subtract any field to or from the displayed Gauss figure. You can alter the reading by holding either the minus (-) or positive (+) button down. Offset is useful when you are measuring in a biasing field or in presence of other external magnetic fields. The meter offset will return to factory reset when the power is turned off.

If you want the display to show 'zero' even if there is some field present, then you can press 'AUTO ZERO'.

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