

# Model 410 Hand-Held Gaussmeter

- Resolution to 3½ digits (1 part out of ±2000)
- Ranges (Autoranging): ±200 G, ±2 kG and ±20 kG ranges
- Accuracy: ±2% of reading
- Frequency response: DC and 20 Hz to 10 kHz
- Front panel key functions include: Max Hold, Relative, Alarm, Filter
- Custom liquid crystal display

The Model 410 is a hand-held gaussmeter designed for accurate magnetic field measurements from 0.1 G to 20 kG (0.01 mT to 2 T). Most operating functions can be selected via the front panel keypad with one or two keystrokes. The Model 410 displays in gauss or tesla, AC or DC magnetic field values with resolution to 100 mG. Operating functions include Max Hold, Filter, Relative Reading, Zero Probe, and an audible Alarm.

**Max Hold** – The largest field magnitude measured (since the last reset) is displayed with the Max Hold function.

**Filter** – When the field being measured is noisy, using the Filter function will average readings to produce a more stable display.

**Alarm** – An audible alarm is sounded and the display indicator flashes when the measured field is higher than the keypad-entered alarm point.

**Zero Probe** – Used to eliminate probe offsets and small external fields.

**Relative Reading** – Used to show small variations in large background fields. When activated, Relative function displays deviation from a specific setpoint.

**Autoranging** – Automatically selects the appropriate range.

**Memory Hold** – The Model 410, on power down, stores in nonvolatile memory the complete configuration of the instrument, including the calibration number and probe offset, making it unnecessary in most cases to go through a setup procedure on power up.



Model 410 shown in the 4107 bench support.

## Ordering Information

### Model number

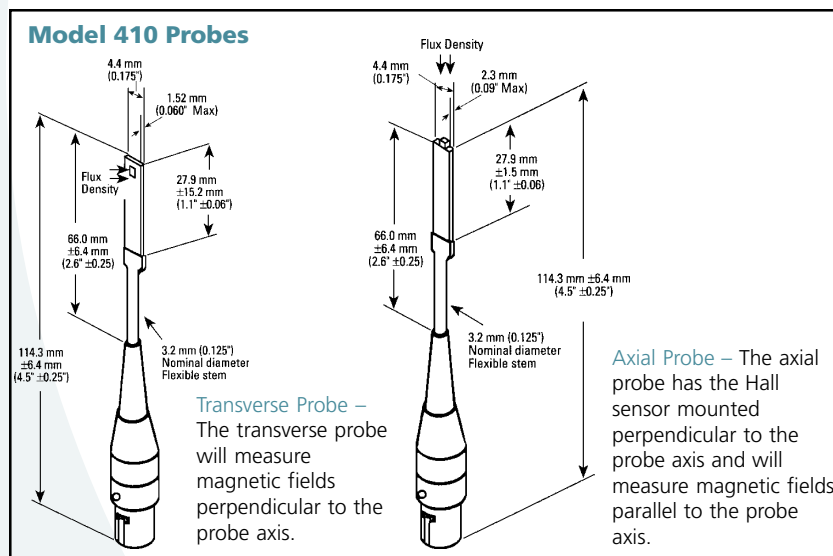
410-SCT	410 in soft case with a transverse probe
410-SCA	410 in soft case with an axial probe
410-SCAT	410 in soft case with a transverse and axial probe
410-HCAT	410 in a hard case with a transverse and axial probe

### Accessories included

Transverse and/or axial probe (MST-410/MSA-410)  
Extension cable (MPEC-410-3)  
Set of four "AA" batteries (4106)  
Users manual (4102)

### Accessories available

4060	Zero gauss chamber
4102	Users manual
4106	Set of four "AA" batteries
4107	Bench support for 410
4141	Soft case
4142	Hard case
MSA-410	Axial probe for 410
MST-410	Transverse probe for 410
MPEC-410-3	Probe extension cable, 1 meter (3 ft)
MPEC-410-10	Probe extension cable, 3 meters (10 ft)



## Model 410 Specifications

**Display:** Digital liquid crystal display (LCD), 3½ digits

**Resolution:** 0.1 G on the 200 G range

**DC accuracy:** 2% of reading ±0.1% of full scale (at 25 °C) Includes instrument, probe, and a calibration transfer

**AC accuracy:** ±5% of reading

**Frequency response:** DC and 20 Hz to 10 kHz

**Ranges:** ±200.0 G (±20.00 mT)  
±2.000 kG (±200.0 mT)  
±20.00 kG (±2.000 T)

**Temperature range:** 0 to 50 °C (operating)

**Instrument temperature coefficient:** 0.05% of reading per °C

**Instrument and probe temperature coefficient:** 0.1% of reading per °C

**Weight:** 0.45 kg (1 lb)

**Size:** 19.3 cm x 9.9 cm x 4.32 cm (7.6 \" x 3.9 \" x 1.7 \" )

**Power:** Battery operated; four "AA" (battery life greater than 160 hours)

