# Hall Effect Gaussmeter

## Digital Hall Effect Gaussmeter & Transverse Probe

The Hall Effect Meter is a calibrated digital meter for measuring the strength of an applied magnetic field. A calibrated sensor probe is placed normal to the surface being examined and responds to the magnetic field tangential to that surface. The meter then provides a reading of the field strength in Gauss, Tesla, or amp/meters, accurate to +/- 3%. The Hall Effect Meter has multiple functions, including AC (RMS) and DC (Peak) modes, auto-range and auto-zero, and Min/Max/Peak hold.

### SPECIFICATIONS

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| **Model** | Bell 5170 |
| **Display** | Digital LCD with backlight |
| **Probe** | Tangential, 4 in / 10.2 cm |
| **Display Units** | Gauss, Tesla, Amp/meter<br>User selectable |
| **Range** | 0-200 G / 0-20 mT / 0-16 kA/m<br>Auto-range |
| **Resolution** | 0.1 G / 0.01 mT / 0.01 kA/m |
| **Features** | Min / Max / Peak Hold<br>Auto-zero |
| **Modes** | AC: RMS<br>DC: Peak |
| **Accuracy** | +/- 3% |
| **Power** | 4x “AAA” batteries |

### SPECIFICATION COMPLIANCE

- ASTM E709
- ASTM E1444
- ASTM E3024
- ASME BPVC Section V Article 7
- ISO 9934

### PART NUMBER

622604

### INSTRUCTIONS

When the Hall Effect Gaussmeter is powered on, a self-test is run to verify the instrument is working correctly. Measurement mode (AC or DC), units, and measurement range can be selected using the keypad on the instrument. (For more information, refer to the instruction book included with the meter).

The Transverse Probe included with the Hall Effect Gaussmeter detects the magnetic field laterally across the tip of the probe. To measure the strength of residual magnetic fields, position the probe along the surface, perpendicular to the direction of the expected field. To measure the strength of transient magnetizing fields, use the Peak Hold function to capture the mag shot.