

## Hall effect gaussmeters

# Gauss/Tesla meter Model 8030

## Specifications

|   |   |   |
|---|---|---|
| Ranges                                      |   | 300mG (30 $\mu$ T)* 3kG(300mT)<br>3G (300 $\mu$ T)* 30kG (3T)<br>30G (3mT) 300kG(30T)†<br>300G (30mT)   |
| *Low field probe                            |   |   |
| † High field probe                          |   |   |
| Resolution                                  |   | 1 $\mu$ G (0.1nT) to 1G (0.1mT) {Dependent on Probe Type Used}  |
| Accuracy (Displayed reading)                | DC basic<br>AC basic  | $\pm 0.05\%$ of reading<br>$\pm 2\%$ of reading   |
| Frequency range                             | DC mode<br>AC mode  | dc to 250Hz<br>20Hz to 50kHz  |
| Accuracy (Corrected analog output)          | DC basic<br>AC basic<br>Frequency range   | $\pm 0.1\%$ of range<br>$\pm 2\%$ of range<br>dc to 500Hz   |
| Frequency range (Uncorrected analog output) | DC mode<br>AC mode  | dc to 100Hz<br>20Hz to 50kHz  |
| Analog output                               | Output voltage<br>Source impedance<br>Connector                                 | $\pm 3V$ FS. or $\pm 10V$ F.S. or adjustable from 0.1 - 9.9V<br><100 ohms<br>Standard female BNC  |
| Additional influences                       | Temperature coefficient   | $\pm (0.02\%$ of reading $\pm 1$ count)/ $^{\circ}C$  |
| Temperature range                           | Operating<br>Storage  | 0 $^{\circ}C$ to +50 $^{\circ}C$<br>-20 $^{\circ}C$ to +60 $^{\circ}C$  |
| Front panel display                         |   | WVGA, 600 x 480 pixels, TFT Color LCD Display with Backlighting. (6.5" diagonal viewing area)   |
| Communication ports                         | RS-232<br>Baud rate<br><br>IEEE-488 Protocol<br>Protocol<br><br>Ethernet<br>USB | Standard 9-pin female "D" connector<br>300,1200,2400,4800,9600,19200,38400,57600,115200 bits/sec<br>Standard 24-pin GPIB connector Protocol IEEE-1987.2 and SCPI-1999<br>IEEE-802.3u Data Link Layer & TCP/IP Transport & Network Layer<br>Standard RJ-45 connector<br>Version 1.1 full speed |
| Power                                       |   | Volts: 100/120 or 220/240<br>Frequency: 50-60 Hz or 50-60 Hz<br>Current: 1.0 A (max) or 0.5 A (max)   |
| Size  | Width<br>Height<br>Depth  | 11.5" (292mm)<br>5.2" (132mm)<br>14.5" (368mm)  |
| Weight                                      | Net<br>Shipping   | 11.5lbs (5.3kg)<br>17.7 lbs (8.1kg)   |

Note: Due to continuous process improvement, specifications subject to change without notice



## Key features

- TFT Color LCD Display with Backlighting
- WVGA, 600 x 480 pixels
- Over 40 standard probes available
- Automatic probe coefficient correction
- Displays in Gauss, Tesla, amp/meter or Oe
- Relative mode
- Fully menu-driven for easy operation
- Auto zero and auto calibration
- IEEE-488, RS-232, Ethernet RJ-45 and USB interface
- CE-compliant
- Manufactured to ISO 9000 standards
- Comprehensive technical support.

## Authorized Distributor:

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