

# Gauss/Tesla meter Model 8010

For more than 60 years, F.W. Bell has been recognized for leadership in Gauss Meters.

Today, F.W. Bell is building on that heritage with our new sixth generation of single, Model 8010 and three channel, Model 8030 Gauss Meters.



(Picture of Model 8030 for illustration only)

The Model 8010 single-channel GAUSS TESLA METER from F. W. Bell leads the way for advanced Hall Effect magnetic measuring technology. The easy-to-use front panel programming feature incorporates the latest in user control operations. And the 8010 is capable of measuring and displaying seven different parameters, including flux density, frequency, temperature, min, max, peak and valley.

This high accuracy instrument is fully equipped to meet most magnetic measuring applications. Bell's dynamic probe correcting software increases the 8010 measurement capabilities to make it the most versatile magnetic measuring tool in the world.

Key features include high-resolution, high-accuracy and high-speed with a large TFT color LCD display with backlighting. The 8000 features 50 kHz frequency response, temperature and frequency measurements, auto zero, auto range, hold functions for peak, valley, min and max, corrected and uncorrected outputs. The Model 8010 provides the user with gauss, tesla, Oe, A/m, IEEE-488, RS-232, Ethernet RJ-45 and USB communications ports and classifier output.

The 8010 operates with Bell's sixth generation Hall effect probes. These probes provide temperature compensation and measurement readings (0°C to +70°C) while monitoring the magnetic field. The easy-to-read TFT Color LCD with Backlighting is easily viewable in most light conditions and can be customized to meet a user's specific needs. Applications range from basic magnetic measuring to sensitive complicated three-axis vector summing requirements. The F.W. Bell Model 8010 is fully CE-compliant.



## 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

Pacific Scientific OECO

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## Specifications

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

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



## Contact

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## Pacific Scientific OECO

Our product competencies and services: Aerospace valves | Thermal management solutions | Environmental control systems | Electro-mechanical  
Industrial fluid controls | Aftermarket services

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smart engineering for  
extreme environments