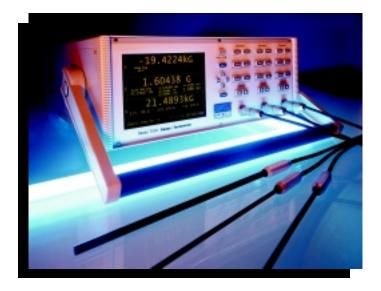
Model 7030 GAUSS/TESLA METER



Description

The Model 7030 three-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. The 7030 is capable of simultaneously measuring and displaying *seven different parameters per channel* -- flux density, frequency, temperature, min, max, peak and valley. With the 7030's vector summation feature, that makes a total of **27** different parameters.

This high accuracy instrument is fully equipped to meet most magnetic measuring applications. Bell's exclusive dynamic probe correcting software increases the 7030 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 graphic electroluminescent display. The 7030 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 for each channel and Vector Summation and angle. The Model 7030 provides the user with gauss, tesla, Oe, A/m, IEEE-488 and RS-232 communications ports and Classifier output.

The 7030 operates with Bell's fifth generation Hall Effect probes. These probes provide temperature compensation and measurement readings (-40°C to +100°C) while monitoring the magnetic field. The easy-to-read 1/4 VGA display 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. All instruments are fully CE compliant.

Features

- Bright 1/4-VGA Readout
- Large electroluminescent graphic display
- Over 100 standard probes available
- Automatic probe coefficient correction
- Displays in Gauss, Tesla, Amp/meter or Oe
- · Peak/Valley Capture
- · Relative Mode

- · Fully menu-driven for easy operation
- Auto Zero and Auto Calibration
- IEEE-488 and RS-232 interface
 - · CE Compliant
 - Manufactured to ISO 9000 standards
 - Comprehensive Technical Support



Division of Bell Technologies, a SYPRIS company

Model 7030 Specifications

Depth 13.5" (343mm) Weight 19.6 lbs. (8.9 kg) DAEYOUNG CORF Net 25.8 lbs. (11.6 kg) Phone: 02-3	SPECIFICATION		
Accuracy (Displayed Reading) dc basic 0.05% of reading Accuracy (Corrected Analog Output) dc basic ±2% of range ±2% of range dc basic ±0.25% of range ±2% of range dc basic Accuracy (Corrected Analog Output) dc basic ±0.25% of range ±2% of range dc basic ±0.25% of range ±2% of range Accuracy (Corrected Analog Output) dc basic ±0.25% of range ±2% of range ±0.25% of range Accuracy (Corrected Analog Output) dc mode ±0.25% of range ±2% of range ±2% of range Accuracy (Loreorected Analog Output) dc mode ±0.25% of range ±2% of range ±2% of range Analog Output Output Voltage Connector ±3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V <100 chms Source Impedance <100 chms Standard BNC Additional Influences Temperature Range Operating 0°C to +50°C -20°C to +60°C Front Panel Display 1/4 VGA, 320 x 240 pixels Electroluminescent graphic display with 4 shades of amber 4.7' (119 mm) W x 3.5' (89mm) H Communication Ports ReS-232 Baud Rate Standard 9-pin 'D' connector 10.150.300.600,1200,2400,4800,9600,19200,38400 bits/sec Fiele E-488 Protocol Elect 9.81 Son dad SCP 1999 Elect 9.81 Son dad SCP 1999 Power Voltis: 10.01/20 or 200/240 Frequency: 50-60 Hz or 50-60 Hz Current: Elect 9.81 Son dad SCP 1990 Widh 13.5' (343mm) Dapth 13.5' (343mm)	Ranges	3G (300µT)* 30kG (3T) 30G (3mT) 300kG/(30T)	t * Low field probe
dc basic 0.05% of reading ac basic ±2% of reading Frequency Range dc to 250Hz dc mode 10Hz to 50kHz Accuracy (Corrected Analog Output) ±0.25% of range dc basic ±2% of range ac basic ±2% of range ac basic ±2% of range dc basic ±2% of range ac basic ±2% of range dc to 250Hz Frequency Range (Uncorrected Analog Output) dc mode dc to 400Hz ac mode 10Hz to 50kHz Analog Output ±3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Output Voltage ±30 F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Source Impedance ±10.02% of reading ±1 countly %C Temperature Range 0°C to +50°C Operating 0°C to +50°C Storage -20°C to +60°C Front Panel Display 1/4 VGA, 320 x 240 pixels Electroluminescent graphic display with 4 shades of amber 4.7° (119 mm) W x 3.5° (89mm) H Communication Ports RS-232 Baud Rate IEEE-1987.2 and SCPI-1999 Power Volts Volts 100/120 or 200/240 Frequency if bal hotmose, and Width 16.3° (414 mm)	Resolution	$1\mu G$ (0.1nT) to 100G (10mT)	
dc to 250Hz ac mode 10Hz to 50KHz Accuracy (Corrected Analog Output) +0.25% of range dc basic ±0.25% of range acbasic ±2% of range Frequency Range (Uncorrected Analog Output) dc to 400Hz dc mode dc to 400Hz acmode 10Hz to 50KHz Analog Output dc to 400Hz OutputVoltage ±3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Source Impedance <100 ohms	dcbasic		
dc basic ±02% of range ac basic ±2% of range dc to 250Hz Frequency Range (Uncorrected Analog Output) dc mode ac mode 10Hz to 50kHz Analog Output Output Voltage 23V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Source Impedance Connector Standard BNC Additional Influences Temperature Range Operating OPC to +50°C Storage Power Volts: 10.10,100,1200,2400,4800,9600,19200,38400 bits/sec IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: 50-60 Hz or 50-60 Hz Current: 1.04 (max) or 0.5 A (max) Size Wdth Wdth 16.3° (414 mm) Height 13.5° (343mm)	dcmode		
dc mode dc to 400Hz ac mode 10Hz to 50kHz Analog Output +3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Output Voltage ±3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Source Impedance <100 chms	dc basic ac basic	±2% of range	ect
Output Voltage Source Impedance Connector ±3V F.S. or ±10V F.S. or adjustable from 0.1 - 9.9V Additional Influences Temperature Coefficient ±(0.02% of reading ±1 count)/ °C Additional Influences Temperature Coefficient ±(0.02% of reading ±1 count)/ °C Temperature Range Operating Storage 0°C to +50°C -20°C to +60°C Front Panel Display 1/4 VGA, 320 x 240 pixels Electroluminescent graphic display with 4 shades of amber 4.7" (119 mm) W x 3.5" (89mm) H Communication Ports RS-232 Baud Rate Standard 9-pin "D" connector 110,150,300,600,1200,2400,4800,9600,19200,38400 bits/sec IEEE-488 Protocol Standard 24-pin GPIB connector IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: 50-60 Hz or 50-60 Hz Current: 1.0 A (max) or 0.5 A (max) Size Width Height Depth 16.3" (414 mm) 5.2" (132mm) 13.5" (343mm) Weight Net 19.6 lbs. (8.9 kg) 26 lbs. (8.9 kg) DAEYOUNG COFF	dc mode	dc to 400Hz	
Temperature Coefficient ±(0.02% of reading ±1 count)/ °C Temperature Range Operating Storage 0°C to +50°C -20°C to +60°C Front Panel Display 1/4 VGA, 320 x 240 pixels Electroluminescent graphic display with 4 shades of amber 4.7" (119 mm) W x 3.5" (89mm) H Communication Ports RS-232 Baud Rate Standard 9-pin "D" connector 110,150,300,600,1200,2400,4800,9600,19200,38400 bits/sec IEEE-488 Protocol Standard 24-pin GPIB connector IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: 50-60 Hz Current: Size Wdth Height Depth 16.3" (414 mm) 5.2" (132mm) 13.5" (343mm) Weight Net 19.6 lbs. (8.9 kg) 26 9 lbs. (8.9 kg)	Output Voltage Source Impedance	<100 ohms	ble from 0.1 - 9.9V
Operating Storage 0°C to +50°C -20°C to +60°C Front Panel Display 1/4 VGA, 320 x 240 pixels Electroluminescent graphic display with 4 shades of amber 4.7" (119 mm) W x 3.5" (89mm) H Communication Ports RS-232 Baud Rate IEEE-488 Protocol Standard 9-pin "D" connector 110,150,300,600,1200,2400,4800,9600,19200,38400 bits/sec Standard 24-pin GPIB connector IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: 50-60 Hz Current: 1.0 A (max) or 0.5 A (max) Size Width Height Depth 16.3" (414 mm) 5.2" (132mm) 13.5" (343mm) DEEYOUNG CORP Phone: 025.9 kg) 05.9 km (116 km)		\pm (0.02% of reading \pm 1 count)/ °C	
Electroluminescent graphic display with 4 shades of amber 4.7" (119 mm) W x 3.5" (89mm) H Communication Ports RS-232 Baud Rate IEEE-488 Protocol Standard 9-pin "D" connector 110,150,300,600,1200,2400,4800,9600,19200,38400 bits/sec Standard 24-pin GPIB connector IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: 50-60 Hz or 50-60 Hz Current: 1.0 A (max) or 0.5 A (max) Size Width Height Depth 16.3" (414 mm) 5.2" (132mm) 13.5" (343mm) Weight Net 19.6 lbs. (8.9 kg) 25.9 lbs. (41.6 km)	Operating		
RS-232 Baud Rate IEEE-488 Protocol Standard 9-pin "D" connector 110,150,300,600,1200,2400,4800,9600,19200,38400 bits/sec Standard 24-pin GPIB connector IEEE-1987.2 and SCPI-1999 Power Volts: 100/120 or 200/240 Frequency: Size Width Height Depth 16.3" (414 mm) 5.2" (132mm) 13.5" (343mm) Weight Net 19.6 lbs. (8.9 kg) 25.9 lbs. (41.6 kg)	Front Panel Display	Electroluminescent graphic displa	
Size Frequency: 50-60 Hz or 50-60 Hz Current: 1.0 A (max) or 0.5 A (max) Size Width Height 16.3" (414 mm) Depth 5.2" (132mm) 13.5" (343mm)	RS-232 Baud Rate IEEE-488	110,150,300,600,1200,2400,480 Standard 24-pin GPIB connector	
Width 16.3" (414 mm) Height 5.2" (132mm) Depth 13.5" (343mm) Weight 19.6 lbs. (8.9 kg) Net 25.8 lbs. (41.6 kg) DAEYOUNG CORF Phone: 02-3	Power	Frequency: 50-60 Hz or 50-60	Hz
Net 19.6 lbs. (8.9 kg) DAL 100 NG CON-	Width Height	5.2" (132mm)	F.W. BEL Division of Bell Technologies, a SYPRIS
		19.6 lbs. (8.9 kg) 25.8 lbs. (11.6 kg)	DAEYOUNG CORPORA Phone: 02-3291- Fax: 02-3291-

® ny V 4 '5 www.dycorp.co.kr