

DX-150 Intelligent Digital Gauss Meter / Tesla Meter



DX-150 Full-Digital Gauss/Tesla Meter is designed for applications requiring high precision, high-resolution magnetic field measurement. It is a high precision intelligent apparatus, which integrates measuring, storage, industrial control, communication just in one machine. DX-150 takes advantage of microprocessor technology to provide you with high-precision, higher refresh rate and display resolution and high measurement repeatability and stability in your research and production. With simple and convenient operation panel and the full menu, 4 $\frac{3}{4}$ -bit resolution readings, a high-resolution 1 / 60000, so that you can view 0.1Gs weak changes in the high magnetic field measurements. It has a maximum range up to 30KG (3T). It has a large capacity of data storage and you can review data according to storage time. In one word it is suitable for a full range of DC magnetic field measurements, and it is mainly sold to research institutes and various types of production units. Industrial interface can be installed if needed.

Features

Bright widescreen LCD 4 $\frac{3}{4}$ -bit resolution display	Basic DC accuracy: $\pm 0.2.0\%$ of reading
Maximum/minimum/peak/valley value keeping and interface locking	Basic resolution: 0.01mT





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Data-storage(auto/manual)/historical-data reviewing	Auto-zero, automatic/manual range
Probe Auto Calibration / Auto Memory operation mode / Probe temperature compensation	RS-232C interface / data output
Display units: Gauss or Tesla	Zero setting
Communication baudrate adjustment / working temperature display	Threshold setting and alarming
Time setting	dozens of optional basic probes (matched 1mm ultra-thin probe)

Specifications

Model-150 Specifications		
	0.1mT=1Gs	
Range	(0.1Gs-3000Gs)/(1Gs-30KG)	
Resolution		
Accuracy (display value)	DC	±0.3% of reading
	AC	±2% of reading
Frequency Range	DC mode	Dc
	AC mode	20Hz to 20kHz
Additional effects	Temperature Coefficient	±(0.03% ±1 count)/ °C
Temperature range	Working temperature	0°C to 50°C
	Storage temperature	-20°C to 60°C
Panel Display	128 * 64 Pixel, widescreen LC	
Communication Interface	RS-232 Standard 9-pin D-type connectors	
Supply power	Voltage: 200/240v Frequency: 50-60 Hz	

Connections: computer, oscilloscope, industrial equipment, bus system





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Main Function

*High –precisio magnetic field measurement

* Automatic / Manual Storage: This machine provides 500 data storage space and automatically store data according to set time (1-60 seconds).Also it provides random storage and can be reviewed as per time and stored order.

*Max / Min Lock: Turn on or off the peak measurement function.Capture and display the highest and the lowest magnetic field readings, and lock the interface.

First gear: Maximum/minimum/peak/valley holding

Second gear: interface locking

Third gear: relieving

*Auto Zeroing mode

1) relative zero magnetic field mode: put the probe into chamber of Zero-Gauss calibrator, zeroing and store the data.

2) eliminate geomagnetism mode: put the probe on horizontal to make sure it is vertical against geomagnetic field,zeroing and store the data.

*Communications and drawing:

The RS-232C interface function

1) the user can use the computer to read test data, draw various survey map with professional drawing software, and transmit and print chart

2) with serial real-time transmission function of real time monitoring real-time data in a computer

3) query real-time data through fixed instruction

DX-150 optional accessories

Gauss meter professional graphics software (including database)

Zero Gauss chamber

Serial port USB2.0 connector

Gauss meter probe fixing rack

