



# LZ Series Gauss Meter

## ——LZ-680



### **1. Product Introduction**

LZ-680 is a desktop AC and DC gaussmeter among the LZ series gaussmeters. It is used for measuring the surface magnetic field of permanent magnets and the working magnetic field of DC motor and magnetic separators.

LZ-680 has the function of displaying N/S, with the high resolution of 0.1 G, it can be used for detecting the residual magnetic of machining, the remanence of workpiece and controlling the magnetic properties of plating materials, also detecting the magnetism of motors. With AC measurement function, it can be applied for detecting AC space magnetic field distribution.

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It can be connected to computer by the USB interface, and quickly form the magnetic field monitoring and measurement system by dedicated acquisition software.

LZ-680 equipment with digital hall probe, records calibration information, temperature compensation and linear correction coefficient. The probe has high interchangeability.

## **2. Main Features**

- 4  $\frac{3}{4}$  digital LCD display
- measuring range:-30000G—+30000G
- DC / AC magnetic field
- DC / AC maximum value hold
- DC field polarity judge function (N/S)
- probe automatic zero, relative measurement, upper and lower limit alarm sorting
- units: G, T, Oe, A/m
- USB PC interface, control port and correct analog output
- temperature compensation and multi-point linear correction
- digital transverse and axial hall probe

### 3. Technical Data

Power	AC220V±5%/50Hz		
Display	4 <sup>3</sup> / <sub>4</sub> digital LCD display		
DC Measuring	Gauss/Oersted	Tesla	Amper/meter
Range/	30kG,30KOe/1G,Oe	3T/1mT	2400KA/m/1kA/m
Resolution	3KG,3KOe/0.1G, Oe	300mT/10μT	240KA/m/10kA/m
AC Measuring	3kG,3KOe/1G,Oe	0.3T/1mT	240KA/m/1kA/m
Range/Resolution	300G,300Oe/0.1G, Oe	30mT/10μT	24KA/m/10kA/m
Accuracy	DC ±(0.3% of reading +0.01% of range), AC±(2% of reading+0.1%of range)		
Frequency Range	DC/AC 10Hz-10kHz(Sine magnetic field)		
Interface	15-pin D-type probe socket, B-type USB interface socket		
Temperature coefficient	Maximum ±(0.01%of reading)/°C Probe temperature5-45°C		
Measuring Probe	Standard transverse or axial probe		
Application Environment	Instrument : 15-35°C(rated accuracy) 5-45°C(accuracy reduced by 0.2%) Probe: 5-45°C(rated accuracy) -15-65°C(accuracy reduced by0.5%) Humidity: 35-75%		
Dimension	238×100×330mm(W×H×L)		

### 4. Probe Features

LZ-680 is equipped with transverse hall probe.

Probe consists of tip, body, handle, cable, connector, protective tube and calibration number.

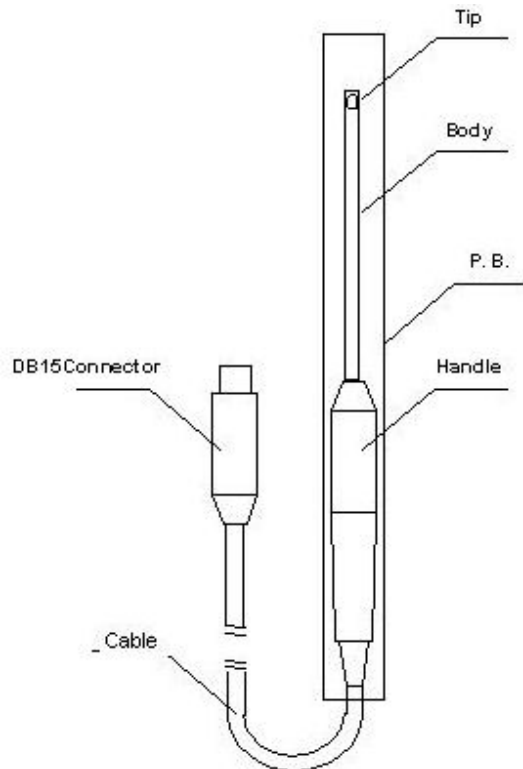
There is hall sensor in the tip of probe, it is fragile and located 3mm away from the tip. The size of tip after enclosure is 1.2mm in thickness and 5m in width.

Probe body as the connector of handle and tip can extend the tip to the position for easy operation.

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Handle is the only part which operator can hold during the operation, in some certain applications, operators can use fixed system to fix the handle to guarantee the stability of tip.

The cable connects tip electric to connector, the length of it is 2m. The connector is DB15-core plug, which can connect to the probe socket in the rear panel LZ-680.



LZ-680 can also be equipped with axial probe, there are two kinds of axial probes: I and II. For I, the hall sensor lies in the body of the probe and 2mm from the tip, it is only suitable for measuring uniform magnetic field, and not fit for surface magnetic field, but has the AC measurement board band of 5kHz. For II, the hall sensor is in the same level with the tip, it can measure both uniform magnetic field and surface magnetic field, but the AC measurement board band is restricted to under 100Hz.

We do not contain axial probe as standard equipment.

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## 5. Configuration

Item	Title	Quantity	Unit
1	LZ-680 Gauss Meter	1	set
2	Hall Probe	1	piece
3	Battery	4	pcs
4	User's Manual	1	piece
5	Warranty Card	1	piece

### **CAUTION:**

Check off each item on the above packing list as it is unpacked. Contact AGS-TECH immediately if there is a shortage of parts or accessories.

Because the products of our company are constantly updated, we change products without notice.

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## **7. Warranty**

1. Manufacturer warrants each instrument of its manufacture to be free from defects in material and workmanship. Our obligation under this warranty is limited to servicing or adjusting any instrument returned to our factory for that purpose. The warranty period is 18 months. On returning the equipment under warranty, the buyer bears the costs for the shipment to AGS-TECH; AGS-TECH bears the costs for returning the device to the buyer. However, the buyer bears all the costs for shipment, taxes and duties, if the device is returned to AGS-TECH from abroad.
2. The warranty period begins on the date of delivery of the product or later on the date of installation of the product if the product is installed by AGS-TECH, the warranty period begins on the 31st day after delivery, provided you schedule or delay the AGS-TECH installation for more than 30 days after delivery.
3. Manufacturer warrants the product only if it has been sold by an authorized employee, sales representative, dealer or headquarter.
4. The warranty period does not apply to defects of product resulting from improper or inadequate maintenance, repair or calibration; unauthorized modification or misuse; improper site preparation or maintenance. Caution: the hall probe is easy to damage; it's not in the warranty scope list.

## **8. Contact Us**

AGS-TECH is open Monday through Friday between the hours of 9:00 am and 5:00pm, excluding holidays. Please contact us for technical questions, repairing and replacement.

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