



LZ Serials Gauss meter ——LZ-643



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1. Product Introduction

LZ-643 is a portable 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-643 can display N/S, with the high resolution of 0.1G, it can be used for detecting the residual magnetic of machining, the remanence of work-piece 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.

LZ-643 has two 64 readings memory, which is convenient for recording measurement data in real time. It can be connected to computer by the USB interface, and quickly form the magnetic field monitoring and measurement system by dedicated acquisition software.

2. Main Features

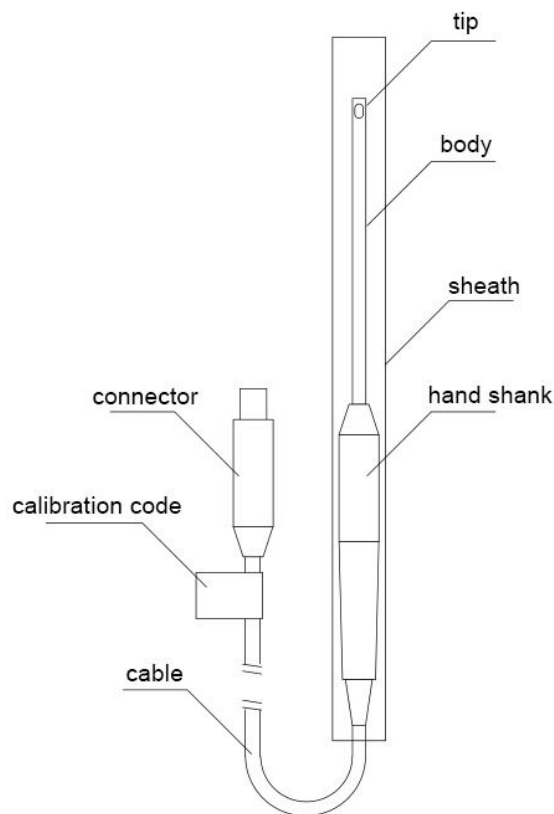
- ✧ Portable, convenient to handle and store, for on site measurement
- ✧ Automatic shut down time can be set, continuous use for more than 30 hours (turn off back-light)
- ✧ DC/AC magnetic field
- ✧ DC/AC maximum value hold
- ✧ DC field polarity judging function
- ✧ Probe automatic zero, relative measurement, upper and lower limit alarm sorting
- ✧ Units: G, T, Oe, A/m
- ✧ Two 64 readings memory for recording measurement data in real time
- ✧ USB interface and dedicated acquisition software
- ✧ Transverse probe/ axial probe with independent calibration value

3. Technical Data

1. Power	four AA batteries (alkaline battery is recommended)	
2. Display	3 3/4digital LCD display	
3. DC Measurement	Range:	30kG, 3kG, 300G
	Resolution:	10G, 1G, 0.1G
	Accuracy:	(2%of reading +0.1%of range)
		(B<20kG, probe temperature15-35°C)
	Temperature coefficient:	Maximum $\pm(0.06\%$ of reading+0.01G)/°C
		probe temperature 15-35°C
4.AC Measurement	Display update rate:	2.5 rgd/s
	Range:	3Kg, 300G
	Resolution:	1G, 0.1G
	Bandwidth:	10Hz-10kHz (sine magnetic field)
	Accuracy:	$\pm(5\%$ of reading +0.2%of range)
		(effective range, 1kHz sine magnetic field)
		Effective measurement range >0.33%range
		Rated measurement range >1%range
	Zero deviation :	<0.2%range
	Temperature coefficient:	Maximum $\pm(0.06\%$ of reading)/°C
	probe temperature 15-35°C	
5.Application Environment	Display update rate:	2.5 rgd/s
	Instrument:	15-35°C (rated accuracy)
		35-45°C (accuracy reduced by 0.2%)
	Probe:	15-35°C (rated accuracy)
		35-45°C (accuracy reduced by 1%)
	Humidity:	35~75%
6. Interface:	5-core probe socket	
7. Dimension:	L173*W91*T42mm	

4. Probe Features

1. The standard configuration of LZ-642 is transverse probe. There is also axial probe for customer selection.
2. The probe is composed of tip, body, hand shank, cable, connector, sheath and calibration code.
3. In the tip of probe, there is a hall sensor, which is very fragile. The thickness of tip is 1.2mm and the width is 3.5mm.
4. The body of probe connects with tip and hand shank and extends tip to the suitable operation position.
5. Hand shank is the only part which operator can hold during the measurement. In some special applications, operator can use some fixed device to hold the hand shank, so that the tip of probe is kept stable during the measurement.
6. The cable connects the electric from tip to connector. The length of it is 1.5 m. The connector is 5 core plug, and connects with the socket at the tip of LZ-642.
7. Sheath is used to protect the tip and body shank of probe.
8. All the probes have a separate calibration code. The calibration code is near the probe connector. The calibration code can be input to LZ-642 by keyboard.



5. Packing



6. Configuration

Item	Title	Quantity	Unit
1	LZ-643 Gauss Meter	1	set
2	Hall Probe	1	piece
3	Battery	4	pcs
4	User's Manual	1	piece
5	Warranty Card	1	piece
6	CD for software	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, change of products occur without notice.

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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