Catalogue

Digital Gaussmeters / Teslameters and Active Hall Probes

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Contents

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Digital Gaussmeter/Teslameter

Type	Measuring range	Accuracy	Resolution	Data communication & power supply	Magnetic field
CYGM99A	0-50mT, 0-200mT, 0-500mT, 0-2000mT	DC: ±1.0% AC: ±2.0%	0.001mT, 0.01mT, 0.1mT	Data communication via USB Power supply via USB, 3x1.5VDC (AA battery)	DC/AC magnetic field
CYGM99B	0-50mT, 0-200mT, 0-300mT, 0-500mT, 0-2000mT, 0-3000mT	DC: ±1.0% AC: ±2.0%	0.001mT, 0.01mT, 0.1mT	Data communication via USB Power supply via USB, 3.7VDC (LiPo battery)	DC/AC magnetic field
CYGM99C	0-50mT, 0-200mT, 0-300mT, 0-500mT, 0-2000mT, 0-3000mT	DC: ±1.0% AC: ±2.0%	0.001mT, 0.01mT, 0.1mT	Wireless data-communication via WIFI and Data communication via USB Power supply via USB, 3.7VDC (LiPo battery)	DC/AC magnetic field

Active Hall Probes with analog Output Signal

Type	Measuring range	Accuracy	Output signal	Magnetic field
CYTP98	0-50mT to 0-2000mT	±1.0%	2.5VDC ± 2.0V AC/DC	DC/AC magnetic field
CYAP98	0-50mT to 0-2000mT	±1.0%	2.5VDC ± 2.0V AC/DC	DC/AC magnetic field

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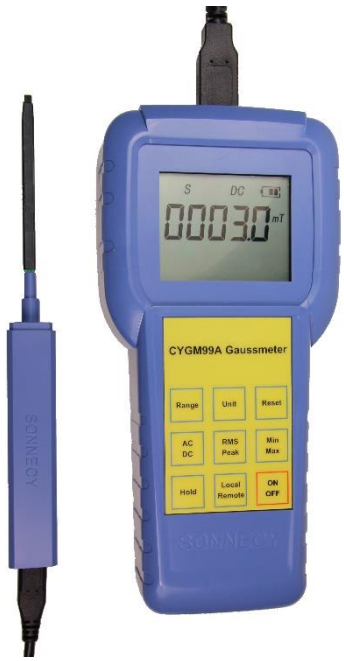
Digital Gaussmeter/Teslameter

Gaussmeter/Teslameter CYGM99A



The Gaussmeter CYGM99A works according to Hall Effect measuring principle. It is a microprocessor controlled instrument and can be used to measure DC/AC magnetic field strength of permanent magnet materials, motors, speakers, magnetic sensors/ transducers, other machines and instruments etc. with high resolution. It is powered with 3 pieces of AA batteries (+1.5VDC) or via USB cable (+5VDC).

Features:

- Wide measuring range and high resolution
- A low-cost measuring device, which is easy to operate, portable and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements, with built-in polarity display.
- Data communication with computer via USB cable for further processing.
- Remote control by computer.

Technical Data:

Measuring ranges:	0-50mT, 0-200mT, 0~500mT and 0-2000mT		
Basic accuracy:	DC: ±1.0%,	AC: ±2.0%	
Resolution:	DC x1:	0.0 ~ 50.000mT,	0.001mT
	DC x10:	0.0 ~ 500.00mT,	0.01mT
	DC x1:	0.0 ~ 200.00mT,	0.01mT
	DC x10:	0.0 ~ 2000.0mT,	0.1mT
	AC x1:	0.0 ~ 50.000mT,	0.001mT
	AC x10:	0.0 ~ 500.00mT,	0.01mT
	AC x1:	0.0 ~ 200.00mT,	0.01mT
	AC x10:	0.0 ~ 2000.0mT,	0.1mT
Measuring magnetic field:	DC/AC (static and dynamic field)		
Frequency range:	DC, 10Hz ~ 10 kHz		
Functions:	Range x1 / x10 selection		
	Unit mT /Gs selection		
	Probe zero adjustment		
	N/S pole display for DC measurement		
	RMS/Peak value for AC measurement		
	Max hold, Min hold, Display hold		
	Local/Remote control		
Display:	5 Digit LCD		
Display Unit:	mT/Gs (1mT=10Gs)		
Ambient temperature:	+5°C ~ +50°C		

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Storage temperature:	-20°C ~ +70°C
Relative humidity:	20% ~ 80%
Power supply:	3 x 1.5V AA batteries or USB 5V
Dimensions:	190mm x 90mm x 33mm
Weight:	365g

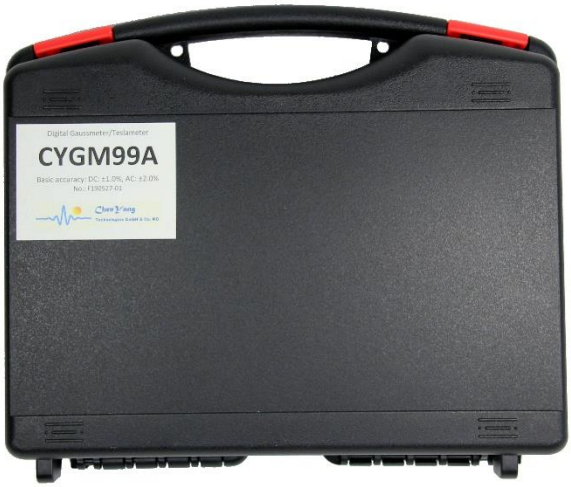
Accessories:

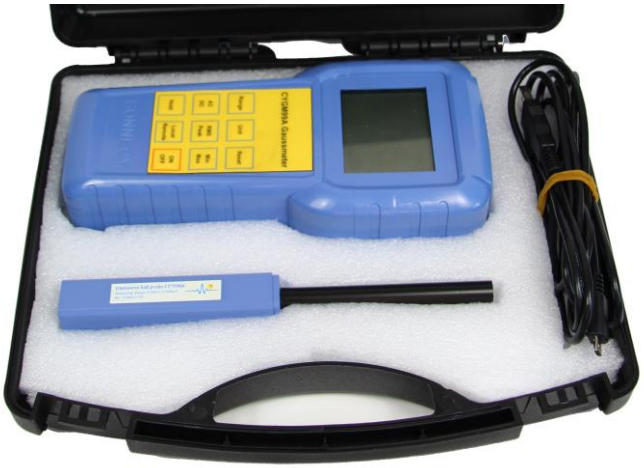
1) 3 x 1.5V AA batteries (not included if the transport is by air freight)
2) 1 x Hall probe CYTP98B (option: CYTP98A/CYAP98A/CYAP98B)
3) 2 x 0.9m USB Cable
4) 5V DC Voltage adapter (standard mobile phone charger)

Hall Probes:

Probe Name	transverse probe		axial probe	
Part number	CYTP98A	CYTP98B	CYAP98A	CYAP98B
Measuring range	0-50mT, 0-500mT	0-200mT, 0-2000mT	0-50mT, 0-500mT	0-200mT, 0-2000mT
Probe size	1.5 x 4 x 65mm Custom-made : 0.95x4x65mm		Ø7 x 80mm	
Picture of CYTP98A and CYTP98B				
Picture of CYAP98A and CYAP98B				

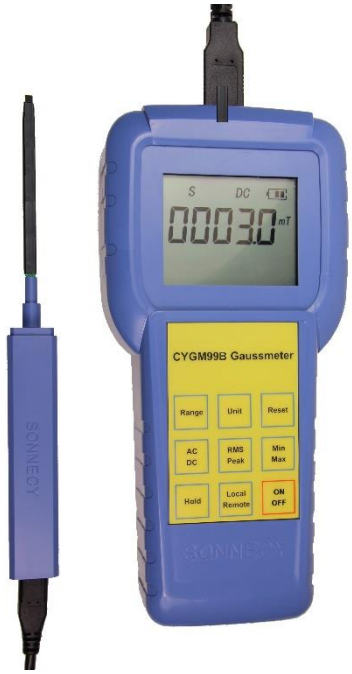
Packing Box:





Net weight: 735g

Gaussmeter/Teslameter CYGM99B - Rechargeable LiPo Battery



The Gaussmeter CYGM99B works according to Hall Effect measuring principle. It is a microcontroller-controlled instrument and can be used to measure DC/AC magnetic field strength of permanent magnet materials, motors, speakers, magnetic sensors/ transducers, other machines and instruments etc. with high resolution. It is powered with a rechargeable LiPo Battery (+3.7V) or via USB cable (+5V).

Features:

- Rechargeable LiPo battery
- Wide measuring range and high resolution
- A low-cost measuring device, which is easy to operate, portable and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements, with built-in polarity display.
- Data communication with computer via USB cable for further processing on a PC
- Remote control by computer.

Technical Data:

Measuring ranges:	0-50mT and 0-500mT, 0-200mT and 0-2000mT, 0-300mT and 0-3000mT		
Basic accuracy:	DC: ±1.0%,	AC: ±2.0%	
Resolution:	DC/AC x1:	0.0 ~ 50.000mT,	0.001mT
	DC/AC x10:	0.0 ~ 500.00mT,	0.01mT
	DC/AC x1:	0.0 ~ 200.00mT,	0.01mT
	DC/AC x10:	0.0 ~ 2000.0mT,	0.1mT
	DC/AC x1:	0.0 ~ 300.00mT,	0.01mT
	DC/AC x10:	0.0 ~ 3000.0mT,	0.1mT

Measuring magnetic field:	DC/AC (static and dynamic field)
frequency range:	DC, 10Hz ~ 10 kHz
Functions:	Range x1 / x10 selection Unit mT /Gs selection Probe zero adjustment N/S pole display for DC measurement RMS/Peak value for AC measurement Max hold, Min hold, Display hold Local/Remote control
Display:	5 Digit LCD
Display Unit:	mT/Gs (1mT=10Gs)
Ambient temperature:	+5°C ~ +50°C
Storage temperature:	-20°C ~ +70°C
Relative humidity:	20% ~ 80%

Power supply:	1 x LiPo battery (3.7V) or USB 5V
Dimensions:	190mm x 90mm x 33mm
Weight:	365g

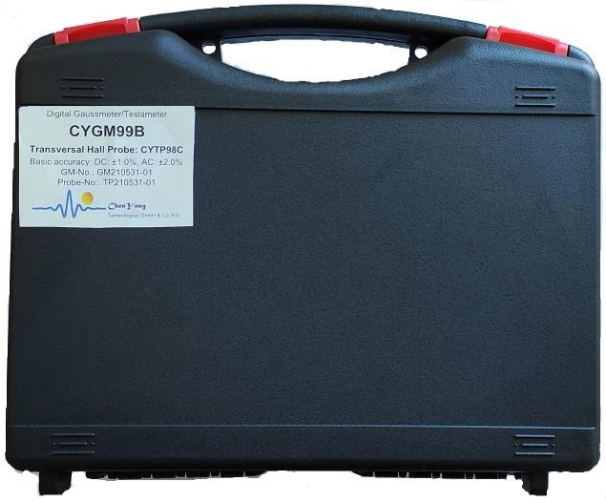
Accessories:

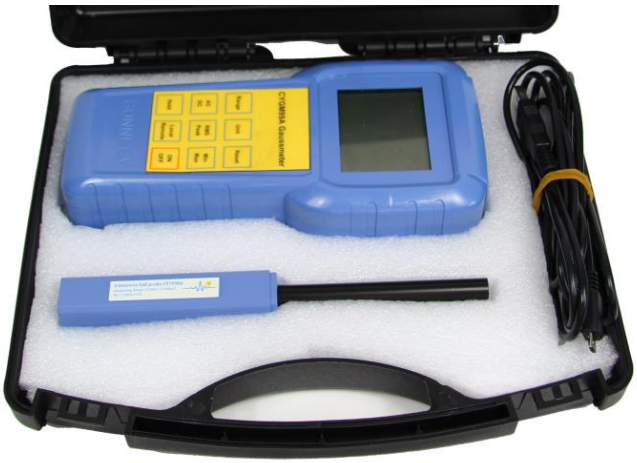
1) 1x 3.7V LiPo battery
2) 1 x Hall probe CYTP98[A/B/C] or CYAP98[A/B/C]
3) 2 x 0.9m USB Cable
4) 5V DC Voltage adapter (standard USB-B charger)

Hall Probes:

Probe Name	transverse probe			axial probe		
Part number	CYTP98A	CYTP98B	CYTP98C	CYAP98A	CYAP98B	CYAP98C
Measuring range	0-50mT, 0-500mT	0-200mT, 0-2000mT	0-300mT 0-3000mT	0-50mT, 0-500mT	0-200mT, 0-2000mT	0-300mT 0-3000mT
Probe size	1.5 x 4 x 65mm Custom-made : 0.95x4x65mm			Ø7 x 80mm		
Picture of CYTP98[A/B/C]						
Picture of CYAP98[A/B/C]						

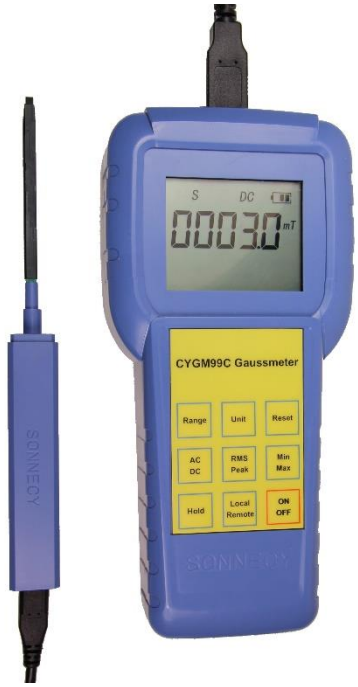
Packing Box





Net weight: 735g

Gaussmeter/Teslameter CYGM99C - Wireless Data-Communication



The Gaussmeter CYGM99C works according to Hall Effect measuring principle. It is a microcontroller-controlled instrument and can be used to measure DC/AC magnetic field strength of permanent magnet materials, motors, speakers, magnetic sensors/ transducers, other machines and instruments etc. with high resolution. It is powered with a rechargeable LiPo Battery (+3.7V) or via USB cable (+5VDC).

Features:

- Rechargeable LiPo battery
- Wide measuring range and high resolution
- A low-cost measuring device, which is easy to operate, portable and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements, with built-in polarity display.
- **Wireless data-communication** with a computer or cell phone over the WIFI protocol or wired communication over USB cable for further signal processing.
- Remote control by computer or mobile phone.

Technical Data:

Measuring ranges:	0-50mT and 0~500mT, 0-200mT and 0-2000mT, 0-300mT and 0-3000mT		
Basic accuracy:	DC: ±1.0%,	AC: ±2.0%	
Resolution:	DC/AC x1:	0.0 ~ 50.000mT,	0.001mT
	DC/AC x10:	0.0 ~ 500.00mT,	0.01mT
	DC/AC x1:	0.0 ~ 200.00mT,	0.01mT
	DC/AC x10:	0.0 ~ 2000.0mT,	0.1mT
	DC/AC x1:	0.0 ~ 300.00mT,	0.01mT
	DC/AC x10:	0.0 ~ 3000.0mT,	0.1mT
Measuring magnetic field:	DC/AC (static and dynamic field)		
Frequency range:	DC, 10Hz ~ 10 kHz		
Functions:	Range x1 / x10 selection Unit mT/Gs selection Probe zero adjustment N/S pole display for DC measurement RMS/Peak value for AC measurement Max hold, Min hold, Display hold Local/Remote control, rechargeable battery		
Display:	5 Digit LCD		
Display Unit:	mT/Gs (1mT=10Gs)		
Ambient temperature:	+5°C ~ +50°C		

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Storage temperature:	-20°C ~ +70°C
Relative humidity:	20% ~ 80%
Power supply:	1 x LiPo battery (3.7V) or USB 5V
Dimensions:	190mm x 90mm x 33mm
Weight:	365g

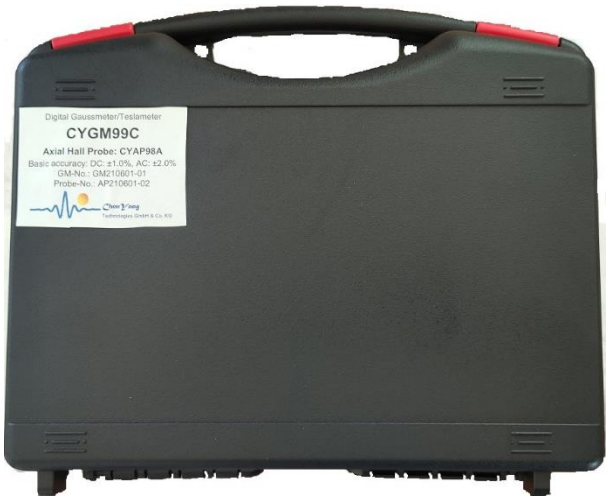
Accessories:

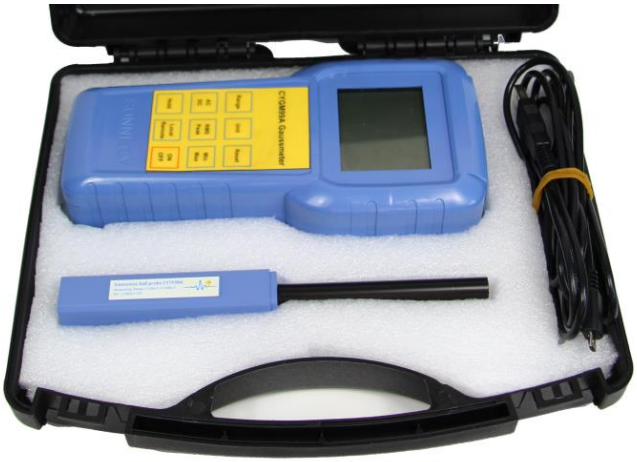
1) 1x 3.7V LiPo battery
2) 1 x Hall probe CYTP98[A/B/C] or CYAP98[A/B/C]
3) 2 x 0.9m USB Cable
4) 5V DC Voltage adapter (standard USB-B charger)

Hall Probes:

Probe Name	transverse probe			axial probe		
Part number	CYTP98A	CYTP98B	CYTP98C	CYAP98A	CYAP98B	CYAP98C
Measuring range	0-50mT, 0-500mT	0-200mT, 0-2000mT	0-300mT 0-3000mT	0-50mT, 0-500mT	0-200mT, 0-2000mT	0-300mT 0-3000mT
Probe size	1.5 x 4 x 65mm Custom-made : 0.95x4x65mm			Ø7 x 80mm		
Picture of CYTP98[A/B/C]						
Picture of CYAP98[A/B/C]						

Packing Box





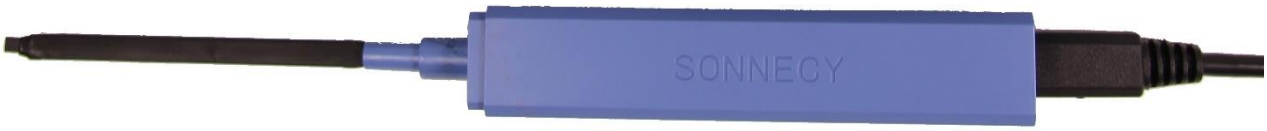
Net weight: 735g

Active Hall Probes with analog Output Signal

Active Transverse Hall Probe CYTP98

The CYTP98 is a transverse Hall probe, which can be used to measure DC/AC magnetic field strength of permanent magnet materials, electromagnets, motors, loudspeakers, magnetic sensors/ transducer and other machines and instruments etc.

It needs a power supply voltage of +5VDC to give an output voltage of 2.5VDC±2VAC/DC in different magnetic measuring ranges from 0- 50mT to 0-2000mT. The probe has a high linearity of ±0.5%~±1.0% and a measuring accuracy of ±1.0% ~ ±2.0%.



1. Characteristics

- The Hall probe gives an analog voltage output of 2.5VDC±2VAC/DC. It can be integrated in different measuring and controlling systems for magnetic field measurement.
- The Hall probe is powered with a single voltage source +5VDC that can be provided in the most microprocessor controlled systems through USB Cable.
- A low-cost measuring device, which is easy to operate and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements

2. Technical Data

Measuring range:	0-50mT to 0-2000mT (for AC/DC magnetic field, measuring rang can be adjusted according to requirements of customer. Part number is CYTP98-xxxmT, for instance, CYTP98-200mT for measuring range 0-200mT)
Voltage output:	2.5VDC ± 2VAC/DC (calibrated with DC magnet field as Standard)
Power supply:	+5VDC (± 5%)
Linearity:	±0.5% for DC Measurement, ±1.0% for AC Measurement
Hysteresis:	±0.25%
Accuracy:	±1.0% for DC Measurement, ±2.0% for AC Measurement
Frequency range:	DC, 10Hz ~ 10 kHz
Operation temperature range:	-25°C ~ +70°C
Relative humidity:	20% ~ 80%
Dimensions (without cable):	180 x 18 x 20mm (Probe dimensions: 1.5 x 4 x 65mm, Custom-made probe: 0.95x4x65mm)
Weight (without cable):	30g

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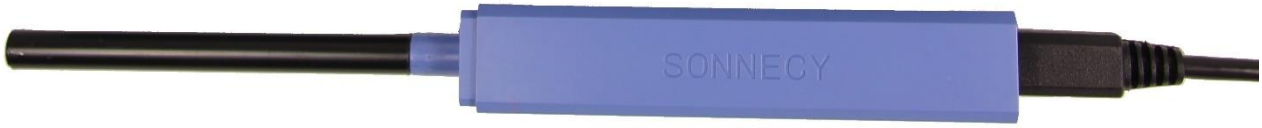
Active Axial Hall Probe CYAP98

The CYAP98 is an axial Hall probe, which can be used to measure DC/AC magnetic field strength of permanent magnet materials, electromagnets, motors, loudspeakers, magnetic sensors/ transducer and other machines and instruments etc.

It needs a power supply voltage of +5VDC to give an output voltage of 2.5VDC±2VAC/DC in different magnetic measuring ranges from 0- 50mT to 0-2000mT. The probe has a high linearity of ±0.5% ~ ±1.0% and a measuring accuracy of ±1.0% ~ ±2.0%.



3. Characteristics

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- The Hall probe gives an analog voltage output of 2.5VDC±2VAC/DC. It can be integrated in different measuring and controlling systems for magnetic field measurement.
- The Hall probe is powered with a single voltage source +5VDC that can be provided in the most microprocessor controlled systems through USB Cable.
- A low-cost measuring device, which is easy to operate and convenient to handle and store.
- Ideal for quick quality checks and comparative measurements

4. Technical Data

Measuring range:	0-50mT to 0-2000mT (for AC/DC magnetic field, measuring rang can be adjusted according to requirements of customer. Part number is CYAP98-xxxmT, for instance, CYAP98-200mT for measuring range 0-200mT)
Voltage output:	2.5VDC ± 2VAC/DC (calibrated with DC magnet field as Standard)
Power supply:	+5VDC (± 10%)
Linearity:	±0.5% for DC Measurement, ±1.0% for AC Measurement
Hysteresis:	±0.25%
Accuracy:	±1.0% for DC Measurement, ±2.0% for AC Measurement
Frequency range:	DC,10Hz ~ 10kHz
Operation temperature range:	-25°C ~ +70°C
Relative humidity:	20% ~ 80%
Dimensions (without cable):	180 x 18 x 20mm (probe dimensions: Ø7 x 80mm)
Weight (without cable):	30g