Fit All Battery Internal Resistance Test

GBM-3000 Series Battery Meter

- 3.5' TFT LCD (320x240)
- Measurement Items : DC Voltage and AC Resistance
  - ✲ Voltage Measurement : 1000V(GBM-3100H)/300V(GBM-3300)/80V(GBM-3080)
  - ✲ Resistance Measurement : 0mΩ~ 3.2kΩ (max.)
- Basic Accuracy For Voltage Measurement : 0.01%
- Basic Accuracy For Resistance Measurement : 0.5%
- Measurement Resolution up to 0.1μΩ and 10μV, Suitable For Single-cell Measurement
- Independent Go/NoGo Determination Function For Voltage and Resistance Respectively
- The Judgment Mechanism of Test Lead (Probe) Disconnect/ Contact Failure is to Ensure The Measurement Reliability
- Standard Interfaces : USB Host/Device, RS-232C and Handler

www.gwinstek.com

GW INSTEK
Simply Reliable

SPECIFICATIONS

DISPLAY

Screen	3.5"(320 x240) TFT LCD
Resistance	5 digits
Voltage	6 digits

TEST SPEED

Slow	4 time/second
Medium	11 time/second
Fast	25 time/second
Ex. Fast	60 time/second

RESISTANCE MEASUREMENT

Test Frequency: 1kHz (±0.5Hz) Fixed

Input Impedance: 3mΩ~ 300mΩ: 99kΩ, 3Ω ~ 3kΩ: 2MΩ

Range

Range No.	Range	Max. scale	Resolution	Test Current	Open-circuit Voltage (Vpp,Max)
0	3mΩ	3.1000mΩ	0.1μΩ	100mA	8V
1	30mΩ	31.000mΩ	1μΩ	100mA	8V
2	300mΩ	310.00mΩ	10μΩ	10mA	7V
3	3Ω	3.1000Ω	100μΩ	1mA	3V
4	30Ω	31.000Ω	1mΩ	100μA	2V
5	300Ω	310.00Ω	10mΩ	10μA	1.5V
6	3kΩ	3200.0Ω	100mΩ	10μA	1.5V

Accuracy

Range No.	Speed	Accuracy	Temperature Coefficient
0	Slow	±0.5%rdg ± 10dgt	(±0.05%rdg ±1dgt)/°C
	Medium	±0.5%rdg ± 15dgt	
	Fast	±0.5%rdg ± 20dgt	
	EX. Fast	±0.5%rdg ± 40dgt	
1~6	Slow	±0.5%rdg ± 5dgt	(±0.05%rdg ± 0.5dgt)/°C
	Medium	±0.5%rdg ± 7dgt	
	Fast	±0.5%rdg ± 7dgt	
	EX. Fast	±1.0%rdg ± 8dgt	

VOLTAGE MEASUREMENT

Range (GBM-3100H)

Range No.	Range	Max. scale	Resolution
0	10V	±9.99999	10 μV
1	100V	±99.9999	100 μV
2	1000V	±1009.99	1mV/10mV

Range (GBM-3300/3080)

Range No.	Range	Max. scale	Resolution
0	8V	±8.08000	10 μV
1	80V	±80.8000	100 μV
2	300V (For GBM-3300 only)	±303.000	1mV

Accuracy

Range No.	Speed	Accuracy	Temperature Coefficient
0~2	Slow	±0.01%rdg ±5dgt	(±0.001%rdg ± 0.5dgt)/°C
	Medium	±0.01%rdg ±7dgt	
	Fast	±0.05%rdg ±7dgt	
	EX. Fast	±0.10%rdg ±10dgt	

OTHER FUNCTIONS

Range Selection	Auto range, Hold range, Nom range
Comparator	ABS, PER or SEQ
Contact Detection	OPEN & WIRE
Buzzer	OFF, Pass, Fail
Trigger	INT, EXT

INTERFACE: USB Host/USB Device/RS-232C/Handler

POWER SOURCE: AC 100-240, 50-60Hz; Consumption: 10W

DIMENSIONS & WEIGHT: 264(W) x 107(H) x 309(D) mm, Approx. 2.8kg

Specifications subject to change without notice. GBM-3000SeriesID1DS

ORDERING INFORMATION

GBM-3100H 1000V Battery Meter (including RS-232C/USB device/host and HANDLER interface)
GBM-3300 300V Battery Meter (including RS-232C/USB device/host and HANDLER interface)
GBM-3080 80V Battery Meter (including RS-232C/USB device/host and HANDLER interface)

ACCESSORIES

Safety sheet x 1, Power cord x 1,
GBM-01 x 1 : 4 Wire(kelvin clip) test lead, 90V(max.), approx..1100mm

FREE DOWNLOAD

PC Software Battery Meter

OPTION ACCESSORIES

GBM-02	4 Wire (single pin) test probe, 80V (max.), approx. 1100mm
GBM-03	4 Wire (twin pin) test probe, 300V (max.), approx. 1400mm
GBM-03A	4 Wire (twin pin) test probe, 1000V (max.), approx. 1400mm
GBM-S1	Short Bar (for GBM-02/GBM-03/GBM-03A)
GTL-232	RS-232C cable, 9-pin Female to 9-pin, null modem for computer, Approx. 2000mm
GTL-246	USB cable, A-B type, approx.1200mm
GRA-422	Rack Mount kit
GRA-454	Rack Mount Kit (19",2U) for one set or two sets

Global Headquarters
GOOD WILL INSTRUMENT CO., LTD.
T +886-2-2268-0389 F +886-2-2268-0639

China Subsidiary
GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.
T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary
GOOD WILL INSTRUMENT (SEA) SDN. BHD.
T +604-6111122 F +604-6115225

Europe Subsidiary
GOOD WILL INSTRUMENT EURO B.V.
T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary
INSTEK AMERICA CORP.
T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary
TEXIO TECHNOLOGY CORPORATION.
T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary
GOOD WILL INSTRUMENT KOREA CO., LTD.
T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary
GW INSTEK INDIA LLP.
T +91-80-6811-0600 F +91-80-6811-0626

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