

GBM-3000 Series

Battery Meter

FEATURES

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- 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 : 0m Ω~ 3.2kΩ (max.)
- Basic Accuracy For Voltage Measurement : 0.01%
- Basic Accuracy For Resistance Measurement: 0.5%
- Measurement Resolution up to 0.1 $\mu\Omega$ and 10 μ V, 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



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e-mail : tem@es-france.com Site Web : www.es-france.com GW Instek desktop battery tester, the GBM-3000 series, which uses AC 1kHz as the test signal and measures battery's voltage and internal resistance to 1000V (GBM-3100H) or 300V (GBM-3300) and 80V (GBM-3080). The series features 3.5" TFT LCD, 4-wire measurement method, high-resolution (6-digit voltage / 5-digit resistance) measurement display capability, and independent GO/NOGO determination of voltage and resistance, various communications interfaces, etc. to meet various types of battery measurements, ranging from single cell, battery cell, to the end product (battery), etc. so as to facilitate users in achieving accurate measurements at all stages of production.

The GBM-3000 series provides excellent features for various types of batteries in measuring open circuit voltage and resistance. For voltage measurement, the accuracy is as high as \pm (0.01% reading + 5 digits), and measurement resolution is up to 10 μ V (at 8V). For resistance measurement, the accuracy reaches \pm (0.5% reading + 5 digits) and the resolution achieves 0.1 μ Ω (at 3m Ω) that is especially suitable for the sorting of single cell measurements, which is to achieve a better output balance for the follow-up series and parallel connections. In the meantime, in order to facilitate users to quickly and clearly interpret the measurement results, the GBM-3000 series features HI/LO determination respectively based on voltage and resistance, and can be switched to the simple (big numerical display) mode to meet the requirements of test accuracy, clear and easy-to-read, and elevated inspection efficiency and capabilities.

Other than the excellent measurement capabilities, the GBM-3000 series also provides a number of functions to ensure effectiveness and convenience. For the effectiveness, the test lead (probe) contact status detection function is to effectively prompt users whether test lead (probe) and DUT are in good contact to ensure the validity of the measured value. In terms of convenience, the GBM-3000 series provides two data storage methods (up to 10,000 lots of measurement values). "General storage" only stores the measured voltage and resistance values; "statistical storage" has the related parameters (Cp/Ckp/Mean/MAX/MIN...) for the statistical analysis. Users can store the data from the measurement process in the internal memory first and then transfer the data to the computer via flash drive for subsequent analysis without being limited to the connection with the computer.

In addition, for retrieving and storing measurement results via the transmission method, the GBM-3000 series provides RS-232C/USB device (virtual COM) for writing programs and retrievals. The handler interface is provided for external trigger control via PLC. All interfaces are standard-equipped that not only save the cost of instruments, but also meet the requirement of using different automated measurement systems.

	CE USB Host USB Device RS-232 Handler
Image: State in the	 3.5" TFT LCD Operation Key Numeric & Navigator Key Setup & Measure Key Test Terminal USB Host Standard Interface : USB Device, RS-232C, Handler Universal Input Power

PANEL INTRODUCTION

ES France - Département Tests & Mesures 127 rue de Buzenval BP 26 - 92380 Garches



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Standard Mode (Setting conditions and R+V measurement parameters)

The GBM-3000 series offers two display modes to facilitate users in maximizing the benefits of their measurements – Standard mode: The main measurement parameters (three combinations: R+V/R/V) and parameter settings for the related measurements can be displayed



Simple Mode (R+V measurement parameters)

simultaneously. This mode is applicable to R&D design and engineering certification. Simple mode: Big numerical display only shows the results of main measurement parameters to increase the visibility of observations. This mode is suitable for production measurements.

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INDEPENDENT GO/NOGO DETERMINATION



Independent HI/LO Setting

The GBM-3000 series provides independent HI/LO determination settings for both voltage and resistance and can be set according to the required mode, such as SEQ, PER or ABS. In addition to displaying



Separate & Totally Judgement

the results of the final determination, the results of individual measurement parameters are also provided for subsequent actions.

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EXCELLENT SUPPLEMENTARY MEASUREMENT CAPABILITY

Disconnect/Contact Display

In addition to providing accurate measurements, the ability of the GBM-3000 Series to supplement the measurement of production lines is also a major feature of the series. For example, the ability to detect disconnect/contact. The display screen can clearly show bad contact of the test lead (probe).The series can store up to 10,000 lots of measurement data and has the statistical calculation function to allow



Statistical Function

the status of the production process to be clearly observed and retained in real time without any manual calculation or connection to the computer. After the measurement is completed, the result can be transferred to the computer through flash drive for long-term storage and subsequent analysis.

D. COMPREHENSIVE STANDARD INTERFACES



Finally, the GBM-3000 series provides a variety of practical and standard-equipped interfaces including RS-232C/USB device/ Handler, which are for measurement result collection in the remote program control or collocating with system integration for external trigger measurement through PLC.



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ORDERING INFORMATION GBM-3100H 1000V Battery Meter (including R5-232C/USB device/host and HANDLER interface) GBM-33100J 1000V Battery Meter (including R5-232C/USB device/host and HANDLER interface) GBM-3030 300V Battery Meter (including R5-232C/USB device/host and HANDLER interface) ACCESSORIES GBM-01 x 1 : 4 Wire (kelvin clip) test lead, 90V(max.), approx.1100mm FREE DOWNLOAD GBM-31 x 1 : 4 Wire (kelvin clip) test lead, 90V(max.), approx.1100mm FREE DOWNLOAD GBM-303 x 4 Wire (kuin pin) test probe, 1000V (max), approx.1400mm FREE DOWNLOAD GBM-31 x 1 : 4 Wire (kelvin clip) test lead, 90V(max.), approx.1100mm FREE DOWNLOAD GBM-31 x 1 : 4 Wire (kelvin clip) test lead, 90V(max.), approx.1100mm FREE DOWNLOAD GBM-31 x 1 : 4 Wire (kuin pin) test probe, 1000V (max), approx.1400mm FREE DOWNLOAD GBM-31 x 1 : 4 Wire (kelvin clip) test lead, 90V(max.), approx.1100mm FREE DOWNLOAD FREE DOWNLOAD PC Software Battery Meter Winster Kument Co., LTD. Habs-2226x 8039 F + 88c-22268-0639 hina Subsidiary TSECHNOLOCY CORPORATION. T48-12-520 SUP F + 81-45-534-7181 Korea Subsidiary OOD WILL INSTRUMENT (SEA) SDN. BHD. GOD WILL INSTRUMENT KOREA CO., LTD. te312-661-1777 F + 85-12-661-7277 Frab-520-205 F + 82-2-3439-2207 Korea Subsidiary <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
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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) August 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Battery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Sattery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Sattery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 S00V Sattery Meter (including RS-232C/USB device/host and HANDLER interface) Balanza 2005 F+886-220268-0389 Balanza 2005 F+886-220268-0639 Inia Subsidiary U.S.A. Subsidiary SOOD WILL INSTRUMENT (SLA) SDN. BHD. Soon Subidiary Sood Subidiary	ORDERING INFORMATION				OPTION /	ACCES	SORIES				
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GBM-01 x 1 : 4 Wire (kelvin clip) test lead, 90V (max.), approx1100mm FREE DOWNLOAD PC Software Battery Meter Hobal Headquarters CTL-246 USB cable, A-B type, approx.1200mm GCM-01 X 1 : 4 Wire (kelvin clip) test lead, 90V (max.), approx1100mm CTL-246 USB cable, A-B type, approx.1200mm GR-422 Rack Mount Kit (19", 2U) for one set or two sets Hobal Headquarters U.S.A. Subsidiary CSA-454 Rack Mount Kit (19", 2U) for one set or two sets SOOD WILL INSTRUMENT CO., LTD. TNSTEK AMERICA CORP. TH:90:399:3355 F:1:90:399:0819 Japan Subsidiary Japan Subsidiary Japan Subsidiary TEXIO TECHNOLOCY CORPORATION. T:+81:45:620:2305 F:+81:45:534:7181 Simply Reliable Korea Subsidiary GOOD WILL INSTRUMENT (SEA) SDN. BHD. GOOD WILL INSTRUMENT KOREA CO., LTD. T:+82:2:3439:2207 T:+82:2:3439:2207 urope Subsidiary GOOD WILL INSTRUMENT EURO B.Y. T:41:80:6811:0600 E:+91:80:6811:0626 We heite Ecehock Linkedin *10/40:2557790 F:+31(0)40:2551194 T:+91:80:6811:0600 E:+91:80:6811:0626 We heite Ecehock Linkedin					GTL-232				9-pin, null modem for		
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