

GBM-3000 Specifications

The specifications apply when the GBM-3000 is powered on for at least 30 minutes under +18°C~+28°C.



Model \ Func.	AC Resistance	DC Voltage
GBM-3100H	0~3.2kΩ	0~1000V
GBM-3300	0~3.2kΩ	0~300V
GBM-3080	0~3.2kΩ	0~80V

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	<table border="1"> <thead> <tr> <th>Range No.</th> <th>Range</th> <th>Max. scale</th> <th>Resolution</th> <th>Test Current</th> <th>Open-circuit Voltage (Vpp max)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>3mΩ</td> <td>3.1000mΩ</td> <td>0.1μΩ</td> <td>100mA</td> <td>8V</td> </tr> <tr> <td>1</td> <td>30mΩ</td> <td>31.000mΩ</td> <td>1μΩ</td> <td>100mA</td> <td>8V</td> </tr> <tr> <td>2</td> <td>300mΩ</td> <td>310.00mΩ</td> <td>10μΩ</td> <td>10mA</td> <td>7V</td> </tr> <tr> <td>3</td> <td>3Ω</td> <td>3.1000Ω</td> <td>100μΩ</td> <td>1mA</td> <td>3V</td> </tr> <tr> <td>4</td> <td>30Ω</td> <td>31.000Ω</td> <td>1mΩ</td> <td>100μA</td> <td>2V</td> </tr> <tr> <td>5</td> <td>300Ω</td> <td>310.00Ω</td> <td>10mΩ</td> <td>10μA</td> <td>1.5V</td> </tr> <tr> <td>6</td> <td>3kΩ</td> <td>3200.0Ω</td> <td>100mΩ</td> <td>10μA</td> <td>1.5V</td> </tr> </tbody> </table>						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
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	10	±9.99999	10μV
	1	100V	±99.9999	100μV
	2	1000V	±1009.99	1mV/10mV
Range (GBM-3300/3080)	Range No.	Range	Max. scale	Resolution
	0	8V	±8.08000	10μV
	1	80V	±80.8000	100μV
	2*	300V	±303.000	1mV
Accuracy	* : 300V for GBM-3300 only			
	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				