



This product adopts piezoelectric effect of artificial polarized ceramic for design. it is suitable for monitoring of all kinds of vibrating mechanical facility, specially the vibration measurement of rotating and reciprocating machinery. The unit can measure acceleration, velocity and displacement, which is widely used in mechanical manufacture, electric power metallurgy and general aviation etc.

Function		
	GM63A	GM63B
Simple to use, the structure is compact, portable for carrying along with measurement	\checkmark	$\sqrt{}$
Visually display measurement value and state		
Acceleration, velocity and displacement measurement		
Different vibration frequency selection		
High sensitivity probe for accurate measurement Provides long and short probe head ,each one is suitable for different situation measurement		V
Equipped with AC signal output interface		×
Low power indication	$\sqrt{}$	$\sqrt{}$
Auto power-off		
LCD backlight	\checkmark	$\sqrt{}$
Provides a magnetic probe to fit the condition uneasy hold on by hand	×	$\sqrt{}$
Maximum value hold function	×	$\sqrt{}$
Temperature unit C°/F°selection	×	$\sqrt{}$

GM63A GM63B	Specification				
Measurement range of acceleration 0.1~199.9m/s² peak Measurement range of velocity 0.1~199.9mm/s rms Measurement range of displacement 0.001~1.999mm p-p Velocity and displacement range is limited by acceleration 199.9m/s² Measurement accuracy ±5%±2digits Measurement frequency range of acceleration 10Hz~1KHz (LO) 1KHz~15KHz (HI) Measurement frequency range of velocity 10Hz~1KHz (LO) Measurement frequency range of displacement 10Hz~1KHz (LO) Displays update cycle 1 second LCD display 3 1/2 digits display AC output 2 V peak (display full scale) Load impedance 10KΩ or more earphones can be connected Power supply 9V Alkaline battery Static current ≤20µA ≤15µA Operating current ≤25mA Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm		GM63A	GM63B		
of acceleration 0.1~199.9m/s² peak Measurement range of velocity 0.1~199.9mm/s rms Measurement range of displacement 0.001~1.999mm p-p Velocity and displacement range is limited by acceleration 199.9m/s² Measurement frequency range of acceleration 10Hz~1KHz (LO) 1KHz~15KHz (HI) Measurement frequency range of velocity 10Hz~1KHz (LO) Measurement frequency range of displacement 10Hz~1KHz (LO) Displays update cycle 1 second LCD display 3 1/2 digits display AC output 2 V peak (display full scale) Voad impedance 10KΩ or more earphones can be connected Single output 9V Alkaline battery Static current ≤20µA ≤15µA Operating current ≤25mA Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Vibration pick up	Piezoelectric ceramic accel	electric ceramic accelerometer (shear-type)		
of velocity Measurement range of displacement Measurement accuracy Measurement frequency range of acceleration Measurement frequency range of velocity Measurement frequency range of velocity Measurement frequency range of displacement Measurement frequency range of displacement Displays update cycle LCD display AC output 2 V peak (display full scale) Load impedance 10KΩ or more earphones can be connected Power supply Static current Sepand Auto power-off LCD backlight Operating temperature range Operating humidity range Low battery indication 6.9V±0.2V Dimensions 10.001~1.999mm p-p Velocity and displacement range is limited by acceleration 10Hz~1SHz (LO) 11Hz~1SHz (LO) 10Hz~1SHz (LO		0.1~199.9m/s² peak			
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range of acceleration Measurement frequency range of velocity Measurement frequency range of velocity 10Hz~1KHz (LO) Measurement frequency range of displacement 10Hz~1KHz (LO) Measurement frequency range of displacement 10Hz~1KHz (LO) 10Hz~1KHz	Measurement accuracy	±5%±2digits			
range of velocity Measurement frequency range of displacement Displays update cycle LCD display AC output 2 V peak (display full scale) Load impedance 10KΩ or more earphones can be connected Power supply Static current Separating current Auto power-off LCD backlight Operating temperature range Operating humidity range Low battery indication 67x30x183mm 10Hz~1KHz (LO) 10Hz~1KHz		10Hz~1KHz (LO) 1KHz~	10Hz~1KHz (LO) 1KHz~15KHz (HI)		
range of displacement Displays update cycle LCD display AC output 2 V peak (display full scale) Load impedance 10KΩ or more earphones can be connected Power supply Static current Operating current Auto power-off LCD backlight Operating temperature range Operating humidity range Operating humidity range Solution 10HZ~1KHZ (LO) 1 second AC output 2 V peak (display A coutput 2 V peak (display (dis		10Hz~1KHz (LO)	DHz∼1KHz (LO)		
LCD display 3 1/2 digits display AC output 2 V peak (display full scale) Cod impedance $10K\Omega$ or more earphones can be connected Power supply 9V Alkaline battery Static current $\leq 20\mu A$ $\leq 15\mu A$ Operating current $\leq 25mA$ Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range $0 \sim 40^{\circ}C$ Operating humidity range $30 \sim 90\%RH$ Low battery indication $6.9V \pm 0.2V$ $6.4V \pm 0.2V$ Dimensions $67x30x183mm$ $72x35x145mm$		10Hz∼1KHz (LO)			
AC output 2 V peak (display full scale) Load impedance 10 KΩ or more earphones can be connected Power supply 9V Alkaline battery Static current ≤20μA ≤15μA Operating current ≤25mA Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions AC output 2 V peak (display full scale) × 15μA ≤15μA ≤15μA ≤15μA 6.9×25mA 4.0×20 (display full scale) × 15μA ≤15μA ≤15μA 6.9×20mA 4.0×20 (display full scale) × 15μA ≤15μA 515μA 6.9×20mA 4.0×20 (display full scale) × 15μA 515μA 515μA 515μA 6.4V±0.2V 6.4V±0.2V Dimensions	Displays update cycle	1 second			
$\begin{array}{c} \text{(display full scale)} \\ \text{Load impedance } 10\text{K}\Omega \text{ or} \\ \text{more earphones can be} \\ \text{connected} \\ \\ \text{Power supply} \\ \text{Static current} \\ \text{Static current} \\ \text{S20}\mu\text{A} \\ \text{Auto power-off} \\ \text{In } 60 \text{ seconds} \\ \text{LCD backlight} \\ \text{Operating temperature range} \\ \text{Operating temperature range} \\ \text{Operating humidity range} \\ \text{S20}\mu\text{A} \\ \text{S25}\mu\text{A} \\ \text{S25}\mu\text{A} \\ \text{Auto power-off} \\ \text{In } 60 \text{ seconds} \\ \text{CD backlight} \\ \text{Operating temperature range} \\ \text{Operating temperature range} \\ \text{Operating humidity range} \\ \text{S30} \sim 90\% \text{RH} \\ \text{Low battery indication} \\ \text{6.9V} \pm 0.2\text{V} \\ \text{6.4V} \pm 0.2\text{V} \\ \text{Dimensions} \\ \text{67x30x183mm} \\ \text{72x35x145mm} \\ \end{array}$	LCD display	3 1/2 digits display			
Static current ≤20 μ A ≤15 μ A Operating current ≤25mA Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Single output	(display full scale) Load impedance 10KΩ or more earphones can be	×		
Operating current ≤25mA Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Power supply	9V Alkaline battery			
Auto power-off in 60 seconds LCD backlight 7 seconds Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Static current	≤20µA	≤15µA		
LCD backlight7 secondsOperating temperature range0~40°COperating humidity range30~90%RHLow battery indication6.9V±0.2V6.4V±0.2VDimensions67x30x183mm72x35x145mm	Operating current	≤25mA			
Operating temperature range 0~40°C Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Auto power-off	in 60 seconds			
Operating humidity range 30~90%RH Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	LCD backlight	7 seconds			
Low battery indication 6.9V±0.2V 6.4V±0.2V Dimensions 67x30x183mm 72x35x145mm	Operating temperature range	0~40°C			
Dimensions 67x30x183mm 72x35x145mm	Operating humidity range	30~90%RH			
	Low battery indication	6.9V±0.2V	6.4V±0.2V		
Weight 182g (including battery) 229g(not including battery)	Dimensions	67x30x183mm	72x35x145mm		
	Weight	182g (including battery)	229g(not including battery)		

Application







Displacement, velocity, acceleration measurement



Aerospace



