



Balance Monitor

SB-8802series

Field Balancer for General Rotating Machinery and High Precision Grinders

www.sigma-elec.co.jp

SIGMA's Field Balancer, all in one compact attaché case with high precision and easy operation is provided at reasonable price

*compared with conventional model

Improved performance, twice* processing speed and 0.2 times* resolution
0.001 μ m resolution at speed range of 120,000min⁻¹ (SB-7006RS)

Battery powered operation (SB-8802RB series)
10 hours battery operation with light and compact size

Screen capture is available
USB port is equipped as standard
Data can transfer to PC via USB port.

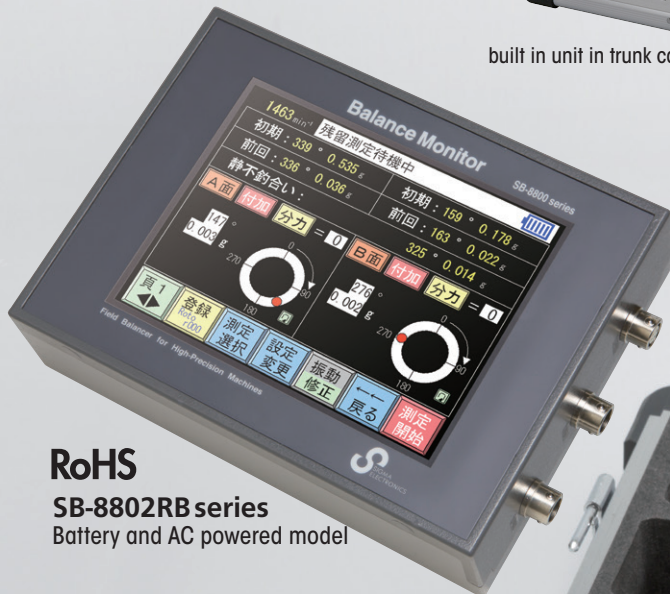
Micro SD card slot (SB-8802RB series)
Measured data can be easily stored in microSD card.

FFT analyzer can be Installed (option)

Balancing of grinding wheels (option)
Balancing of grinding wheels in 1 or 2 plane with angular location adjustment by two or three fixed balance weights.



built in unit in trunk case



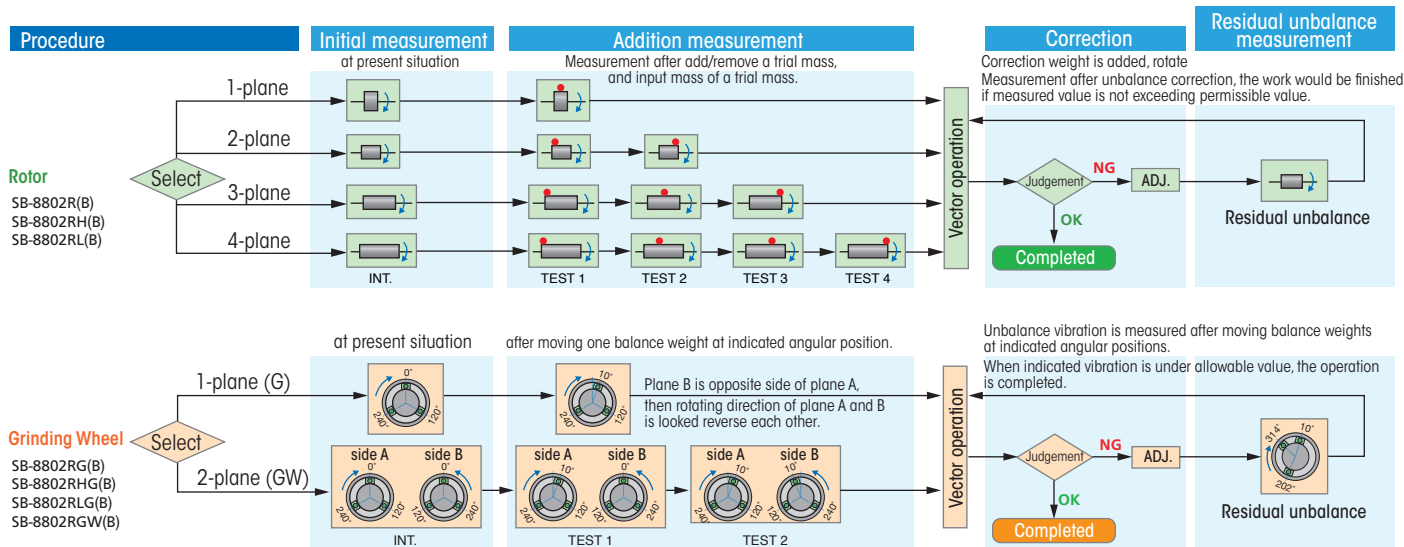
RoHS
SB-8802RB series
Battery and AC powered model

CE
RoHS
SB-8802R series
AC powered model



One vibration sensor is attached as standard.

Most suitable model can be selected from this series for machine tools, turbo molecular pumps, precision grinding machines etc.



Model	AC powered Battery powered	SB-8802R SB-8802RB	SB-8802RH SB-8802RHB	SB-8802RL SB-8802RLB
Range of Measurement	Balancing Speed Resolution of rotational speed Amplitude range of synchronized vibration Resolution of vibration Vibration input channel Measuring method No. of Correction plane	180 to 61,000min ⁻¹	180 to 120,000min ⁻¹ 1min ⁻¹ 0.001 to 999μm(at 6,000min ⁻¹) 0.001μm 2ch Fixed-speed method 1, 2, 3 or 4 selectable	60 to 61,000min ⁻¹
Correction method	Polar coordinates Components of unbalance vector Correction weight		0° to 359° (angle resolution: 1°) 3 to 50 Add / Remove	
Vibration analysis function	Unbalance Vibration Analysis Harmonic analysis		0.001 to 999μm (at 6,000min ⁻¹) 0.001 to 999μm (at 6,000min ⁻¹)	
Others	USB interface microSD card slot Eccentricity compensation Measuring range selection No. of stored work data Graphic display Set up operation Power supply	USB mini-B connector (transfer to PC for data and Screenshots) Equipped in battery powered model Available as standard Automatic ranging 10 5.7" TFT color LCD (LED back light) Dialog with touch screen		
	Environment Dimension of measuring unit Mass of measuring unit Dimension of Carrying case Mass of Carrying case*1	AC type: AC 100 to 240V ±10% 50/60Hz Battery type: Li-Ion battery (Operating time: up to 10hours) AC 100 to 240V ±10% 50/60Hz Temperature: 10 to 40°C, Humidity: 20 to 80%RH (Non-condensing) Battery type:187.5(W)×53.5(L)×130(H)mm Battery type:Approx. 1.1kg 385(W) × 120(L) × 255(H)mm AC type: Approx. 4.2kg /Battery type: 4.4kg		
Standard accessories (one each)	Vibration sensor Fixing magnet Sensor cable Rotation sensor Manual of rotation sensor Fixing magnet stand AC adapter Circular protractor Manual	P12SC (Sensitivity: 10pC/(m/s ²))	KM-025C (Holding force: 100N) LN-041 (2.5m straight) SFS-M1H (with 2m cable) Manual and an adjusting driver NF2021 (Holding force: 320N)	P12SC (Sensitivity: 10pC/(m/s ²))+V10L*2
Optional	FFT Analyzer (-F) Unbalance correction (G, GW) Additional sensor for multi-point measurement	Overall amplitude monitoring / Frequency analysis / Time domain waveform Balance weights arrangement for grinding wheel (G: 1-plane, GW: 2-plane) Vibration sensor:P12SC with cable:LN-041 (2.5m)		

*1 Mass of carrying case with main body and all accessories.

*2 Model SB-8802RL/RLB, Low frequency sensor (V10L), mounting magnet and cable are provided.

Specifications may be changed without any notice due to modification, etc.

A Member of Japan Testing Machine industrial Society
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