



Balance Monitor

SB-8802series

Field Balancer for General Rotating Machinery and High Precision Grinders

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.

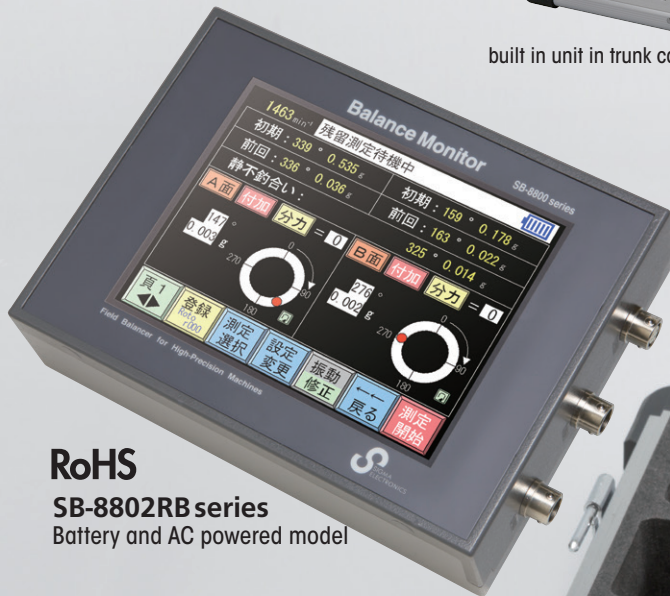
Micro SD card slot (SB-8802RB series)
Measured data can be easily stored in microSD card.

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



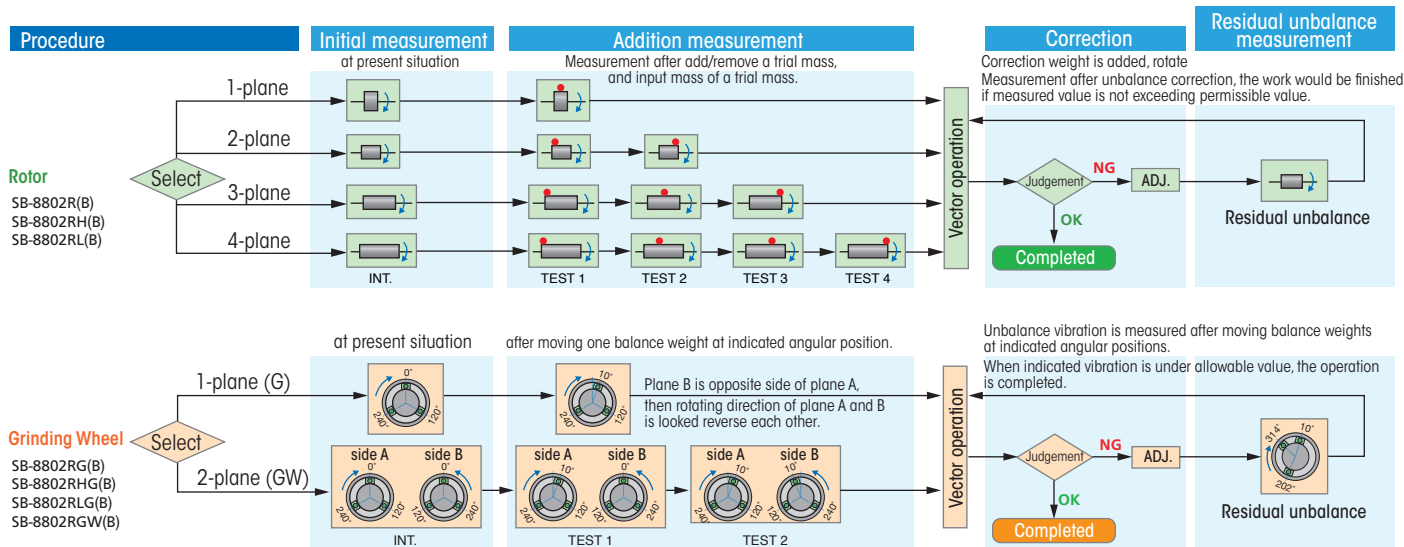
RoHS
SB-8802RB series
Battery and AC powered model

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 | 180 to 61,000min ⁻¹ | 180 to 120,000min ⁻¹ | 60 to 61,000min ⁻¹ |
| | Resolution of rotational speed | | 1min ⁻¹ | |
| Correction method | Amplitude range of synchronized vibration | | 0.001 to 999µm(at 6,000min ⁻¹) | |
| | Resolution of vibration | | 0.001µm | |
| Vibration analysis function | Vibration input channel | | 2ch | |
| | Measuring method | | Fixed-speed method | |
| Others | No. of Correction plane | | 1, 2, 3 or 4 selectable | |
| | Polar coordinates | | 0° to 359° (angle resolution: 1°) | |
| Standard accessories (one each) | Components of unbalance vector | | 3 to 50 | |
| | Correction weight | | Add / Remove | |
| Optional | Unbalance Vibration Analysis | | 0.001 to 999µm (at 6,000min ⁻¹) | |
| | Harmonic analysis | | 0.001 to 999µm (at 6,000min ⁻¹) | |
| Standard accessories (one each) | USB interface | USB mini-B connector (transfer to PC for data and Screenshots) | | |
| | microSD card slot | Equipped in battery powered model | | |
| Optional | Eccentricity compensation | Available as standard | | |
| | Measuring range selection | Automatic ranging | | |
| Optional | No. of stored work data | 10 | | |
| | Graphic display | 5.7" TFT color LCD (LED back light) | | |
| Optional | Set up operation | Dialog with touch screen | | |
| | Power supply | 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 | | |
| Optional | Environment | Temperature: 10 to 40°C, Humidity: 20 to 80%RH (Non-condensing) | | |
| | Dimension of measuring unit | Battery type: 187.5(W)×53.5(L)×130(H)mm | | |
| Optional | Mass of measuring unit | Battery type: Approx. 1.1kg | | |
| | Dimension of Carrying case | 385(W) × 120(L) × 255(H)mm | | |
| Optional | Mass of Carrying case*1 | AC type: Approx. 4.2kg /Battery type: 4.4kg | | |
| | Vibration sensor | P12SC (Sensitivity: 10pC/(m/s ²)) | | P12SC (Sensitivity: 10pC/(m/s ²))+V10L*2 |
| Optional | Fixing magnet | | KM-025C (Holding force: 100N) | |
| | Sensor cable | | LN-041 (2.5m straight) | |
| Optional | Rotation sensor | | SFS-M1H (with 2m cable) | |
| | Manual of rotation sensor | | Manual and an adjusting driver | |
| Optional | Fixing magnet stand | | NF2021 (Holding force: 320N) | |
| | AC adapter | | US318-06 (DC6V 2.8A) | |
| Optional | Circular protractor | | 822-0001 (ø150mm) | |
| | Manual | | CD-ROM, Digest booklet | |
| Optional | FFT Analyzer (-F) | Overall amplitude monitoring / Frequency analysis / Time domain waveform | | |
| | Unbalance correction (G, GW) | Balance weights arrangement for grinding wheel (G: 1-plane, GW: 2-plane) | | |
| Optional | Additional sensor for multi-point measurement | 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.