



# Balance Monitor

## SB-7006series

Field Balancer for General Rotating Machinery

[www.sigma-elec.co.jp](http://www.sigma-elec.co.jp)

Field Balancer, suitable for precision balancing at very wide range of speed up to 400,000min<sup>-1</sup>

**Improved performance, twice\* processing speed and 0.2 times\* resolution**  
0.001μm resolution at speed range of 60min<sup>-1</sup> (SB-7006RL) to 400,000min<sup>-1</sup> (SB-7006RS).

\*compared with conventional model

### Screen capture is available

Screen displayed can be stored in memory with captured time data.

### USB port is equipped as standard

Measured data can be easily stored in USB memory.  
Data can transfer to PC via USB port.

### Built-in printer can be equipped as factory option

Setup and connection are not needed.  
Measured data can be printed immediate following.



CE  
RoHS

optional Built-in printer

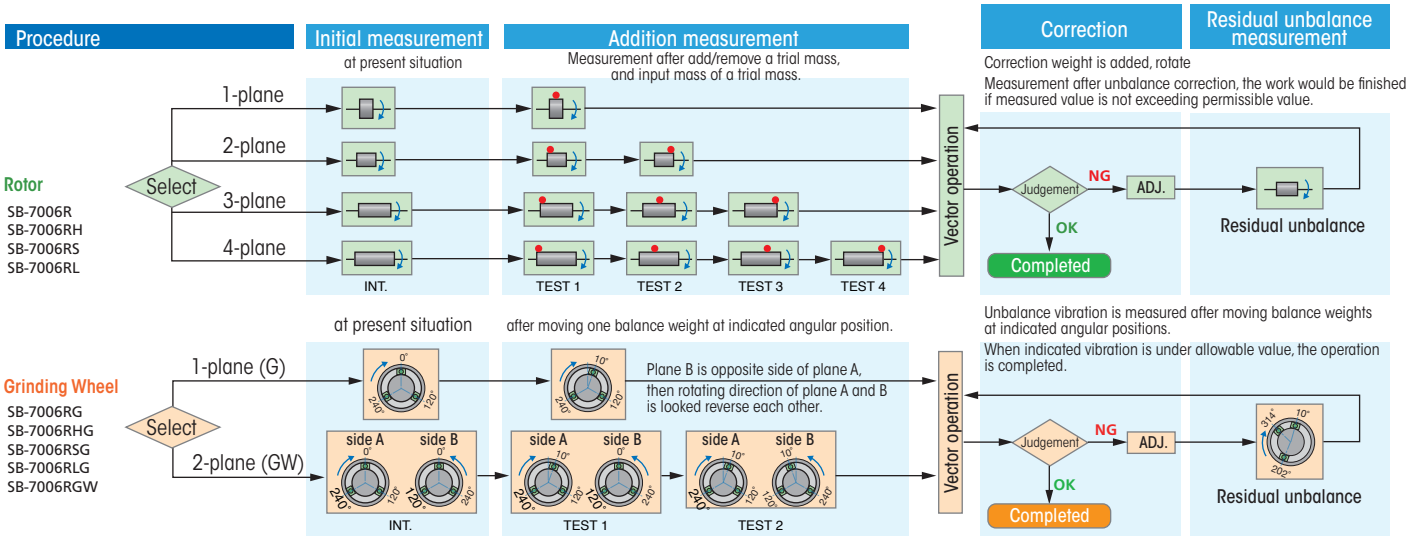


Main body and all accessories are packed a light weight trunk case.



One vibration sensor is attached as standard.

# Most suitable model can be selected from this series for machine tools, blowers, turbo molecular pumps etc.



Model	SB-7006R	SB-7006RH	SB-7006RS	SB-7006RL
Range of Measurement	Balancing Speed 180 to 61,000min <sup>-1</sup>	180 to 120,000min <sup>-1</sup>	180 to 400,000min <sup>-1</sup>	60 to 61,000min <sup>-1</sup>
	Resolution of rotational speed		1min <sup>-1</sup>	
	Amplitude range of synchronized vibration	0.001 to 999μm (at 6,000min <sup>-1</sup> )		
	Resolution of vibration	0.001μm		
	Vibration input channel	2ch		
	Measuring method	Fixed-speed method		
	No. of Correction plane	1, 2, 3 or 4 selectable		
Correction method	Polar coordinates	0° to 359° (angle resolution: 1°)		
	Components of unbalance vector	3 to 50		
	Correction weight	Add / Remove		
Vibration analysis function	Unbalance Vibration Analysis	0.001 to 999μm (at 6,000min <sup>-1</sup> )		
	Harmonic analysis	0.001 to 999μm (at 6,000min <sup>-1</sup> )		
	FFT Analysis (Optional)	Maximum analysis frequency: 20kHz		
	Overall amplitude monitoring	Acc P, Acc RMS, Acc CF, Vel R, Disp EQP (range Acc: 0.1 to 40m/s <sup>2</sup> )		
	Time domain Waveform (Optional)	800 lines max.		
Others	USB memory port	Available as standard		
	USB interface	USB mini-B connector (transfer to PC for data and Screenshots)		
	Eccentricity compensation	Available as standard		
	Measuring range selection	Automatic ranging		
	No. of stored work data	10		
	Graphic display	5.7" TFT color LCD (LED back light)		
	Set up operation	Dialog with touch screen		
	Power supply	AC adapter: AC 100 to 240V ±10% 50/60Hz		
	Environment	Temperature: 10 to 40°C, Humidity: 20 to 80%RH (Non-condensing)		
	Dimension of measuring unit	204(W) × 71(L) × 137(H)mm, (105(L)mm for printer option)		
	Mass of measuring unit	Approx. 1.7kg, (2.2kg for printer option)		
	Dimension of Carrying case	455t(W) × 185(L) × 320(H)mm		
	Mass of Carrying case	Approx. 8.0kg, (8.5kg for printer option)*1		
Standard accessories (one each)	Vibration sensor	P12SC (Sensitivity: 10pC/(m/s <sup>2</sup> ))		P12SC (Sensitivity: 10pC/(m/s <sup>2</sup> ))+V10L*2
	Fixing magnet	KM-025C (Holding force: 100N)		
	Sensor cable	LN-041 (2.5m straight)		
	Rotation sensor	SFS-M1H (with 2m cable)		
	Manual of rotation sensor	Manual and an adjusting driver		
	Fixing magnet stand	DG1030 (Holding force: 800N)		
	AC adapter	US318-06 (DC6V 2.8A)		
	Circular protractor	822-001 (ø150mm)		
	Manual	CD-ROM, Digest booklet		
Optional	FFT Analyzer (-F)	Frequency analysis / Time domain waveform		
	Unbalance correction (G, GW)	Balance weights arrangement for grinding wheel (G: 1-plane, GW: 2-plane)		
	Built-in printer (-P)	Mechanical dot printer		
	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-7006RL, Low frequency sensor (V10L), mounting magnet and cable are provided.

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