

Double Channels Portable Vibration Analyzer Dynamic Balancer Testing Machine HG904





Detailed Product Description:

HG904 Machinery Analyzer/Balancer can measure the intensity of the vibration; diagnose vibration cause by analyzing the frequency spectrum. It can also be used to measure the rotation speed and vibration phase, and to calculate the imbalance weight and location.

Features:

- Easy to use
- Vector illustration, the balancing process and result are shown clearly at a glance
- Storage of 10 rotors balancing data
- Selectable of trial mass remove or remain
- Decompose of balancing result to two assigned location

- Trial weight range calculated according to the weight of rotor, rotation speed, radius and required balance grade
- Trial mass validity judged automatically
- Measuring RPM, amplitude and phase
- On-site 400 lines FFT spectrum and diagnosis function
- Dual-channel simultaneous data collection
- Hardware envelop demodulation for bearing and gear diagnosis
- Transfer function for measuring natural frequency
- Waveform and spectrum display by large LCD
- Storage of vibration values and vibration waveform

Operation condition

- Temperature range: from 5°C to 50°C
- Relative humidity: $\leq 85\%$, unsaturated
- Without caustic gases
- Without strong electric-magnetic field & strong impact

Safety

The HG904 are not permitted to contact with running part of machine.

Specifications

- Rotation speed range for dynamic balancing: 70-60,000 r/min
- Auto-range and manual-range selectable
- Measuring accuracy of vibration: 5 %
- Sensors: Piezoelectric accelerometer, Magnetolectricity velocity, Eddy displacement and etc.
- 8th-order ellipse anti-aliasing filter, RPM band-pass filter
- Input signal: Accelerometer, and voltage
- Amplitude spectrum analysis: 100 lines to 400 lines (zoom), Hanning windowed
- Frequency span of spectrum analysis: 100, 200, 500, 1K, 2K, 5K, 10KHz(only for 1-channel sampling)

- Data storage: 400 waveforms of 1024-points and 400 data sets
- Amplitude ranges & Frequency Response for overall vibration measurement:

	Amplitude ranges	Frequency Response
Displacement	0.003 – 5 mm peak-peak	10 – 500 Hz
Velocity	0.2 – 200mm/s true RMS	10 – 1000 Hz
Acceleration	0.5 – 250m/s ² peak	20 – 5000 Hz
Envelope	0.1 – 20unit true RMS	5-1000Hz from 15-40 KHz
Voltage	0.1 – 10V peak-peak	10 – 10000 Hz

- Notepad: 10 condition codes for visual inspection
- Output: USB for communication with PC
- Power: Ni-MH rechargeable battery for 8 hours continuous operation, low battery warning
- Operating Environment: 0~55 °C, 90% humidity non-condensing
- Rotating speed measurement with photocell sensor
- Dynamic Range: 60dB with 48dB adjustable gain range
- Dimensions: 21×13×4 cm; Weight: 1.2 kg (Include batteries)

