



Vibration Instrumentation:
Calibrators

Table of Contents...

Adjustable Calibrator	2
Hand-Held Calibrator	3
Static Displacement Calibration Set	3

Adjustable Calibrator YE5503

- A complete, self contained, portable vibration calibrator
- Own rechargeable power source
- Test and calibrate all types of vibration transducers and monitoring system in the lab or in the field
- Adjustable vibration excitation amplitude and frequency



Specifications

Maximum Vibration Acceleration:	50.0ms ⁻² (≤ 100Hz)		
Amplitude Linearity:	± 1% (100gram load)		
Frequency Range:	10Hz - 10kHz		
Output Waveform:	Sine waveform		
Waveform Distortion:	≤ 5% (100gram load , 30 to 2,000Hz)		
Amplitude Accuracy:			
• Acceleration:	30Hz to 2kHz , ± 3%; 20Hz to 10kHz , ± 1dB		
• Velocity:	30Hz to 2kHz , ± 3%		
• Displacement:	30Hz to 200Hz , ± 3%		
Waveform Distortion:	≤ 5% (100gram load , 30 to 2,000Hz)		
Maximum Load:	≤ 100gram (10.0ms ⁻²)		
Transducer Type:	A: PE input	B: IEPE input	C: Voltage input
Maximum Input:	PE: ≤ ±1,000pC ; IEPE/Voltage: ≤ ±1,000mV		
Internal Power Supply:	12V 4AH rechargeable battery		
External Power Supply:	AC 110V/220V , 50V , 40W/Max		
Operating Temperature:	0°C to 50°C		
Storage Temperature:	-55°C to + 85°C		
Humidity:	Maximum 95% R.H.		
Dimensions:	304.8mm(W)x177.8mm(H)x304.8mm(D)		
Weight:	~5kg		
Transducer Mounting:	M5 screw (10-32 customized)		
Output Type:	TableM5 screw (10-32 customized)		
Display:	LCD		
Interface:	RS-232C		
Accessories:	One double-head M5; STYV-1 low noise 0.5m cable One double-head BNC ; STYV-2 low noise cable		

**Hand-Held Calibrator
YE5501**

- Self contained 1g vibration reference
- Calibration and testing of vibration measurement systems
- Calibrate and test accelerometers up to 700ms^{-2}
- Small in size ($\Phi 52\text{mm} \times 160\text{mm}$), lightweight (750g)
- Battery powered with automatic shutdown
- Constant amplitude and frequency
- Can be used for rapid measurement of accelerometer sensitivity



**Static Displacement Calibration Set
YE8841**

- Simple displacement adjustment
- Suitable for CWY-DO-500 series eddy transducer static calibration
- Uses micrometer as reference
- Measuring range: 0-25mm
- Accuracy: $\pm 1\mu\text{m}$
- With YE5737B, measurer can display displacement value read out

