



Application

- Rapid and easy calibration of vibration transducers for acceleration, velocity and displacement
- Dynamic calibration of non-contact displacement sensors (proximity probes)
- Calibration and fault detection of vibration measuring systems
- Calibration of low frequency equipment for whole-body vibration to ISO 8041 and building vibration to DIN 4150-3

Properties

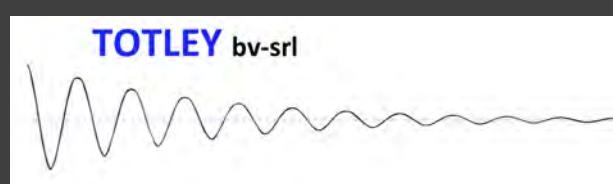
- Load independent vibration level for test objects weighing up to 500 g
- Vibration amplitude selectable in five steps from 1 to 20 m/s²
- Quartz controlled vibration frequency selectable in seven steps from 15.92 Hz to 1280 Hz
- Display shows frequency, magnitude, error in percent and calibration date
- Rugged design
- Mains buffered battery operation for laboratory and field use
- Detachable clamping device for the dynamic calibration of non-contact displacement sensors / proximity probes
- Clock output for the synchronization of narrow-band measuring systems (e.g. key phasers)
- Calibration to ISO 16062-44 with factory calibration certificate
- Upon request, we also offer DAkkS-accredited calibration with traceability

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Dynamic traceable calibration of sound and vibration instrumentation and transducers, Consulting, Management, Engineering and Total Solutions provider in Electronic Instrumentation

Technical Data

Shaker System

Vibration frequency	15,92	40	80	159,2	320	640	1280	Hz
Vibration acceleration	1	1	1	1	1	1	1	m/s ²
	2	2	2	2	2	2	2	m/s ²
		5	5	5	5	5	5	m/s ²
			10	10	10	10	10	m/s ²
				20	20	20	20	m/s ²
Vibration velocity	10			1				mm/s
	20			2				mm/s
				5				mm/s
				10				mm/s
				20				mm/s
Vibration displacement	100			1				μm
	200			2				μm
				5				μm
				10				μm
				20				μm
Weight of test object, 1 m/s ²	500	500	500	500	500	500	500	g
Weight of test object, 2 m/s ²	500	500	500	500	500	500	500	g
Weight of test object, 5 m/s ²		500	500	500	500	500	500	g
Weight of test object, 10 m/s ²			500	500	500	400	200	g
Weight of test object, 20 m/s ²				250	200	100	50	g
Amplitude error, max.	±3 (0 – 40 °C)							%
	±5 (-10 - 55 °C)							%
Frequency error, max.	±0,05							%
Transverse vibration	<10	<10	<10	<10	<20	<20	<10	%
Total Harmonic Distortion (THD)	<1	<5	<1	<1	<1	<1	<1	%
Sensor mounting	M5 tapped hole (90° ± 1°; 7mm deep), magnet							
Level indication	error percent display and acoustic signal							

Connections

Clock output	Clock of internal reference sensor; BNC; 3.3 V; 50 Ω; duty ratio approx. 1:1
Grounding connection	Banana socket 4 mm

Power Supply

Battery	built-in NiMH battery pack; 7.2 V / 1.6 Ah
Charge socket	Circular power connector to DIN 45323 (5.5 mm / 2.2 mm)
Operating time per battery charge	5 (with 100 g weight) h
Accumulator charging time	4 h
Charging voltage	11 – 18 V
Charging current < 1 A	<1 A
Automatic switch off	1 – 30, selectable min

Case Data

Dimensions without connectors	100 x 120 x 100 (W x H x D)	mm
Case material	Aluminum	
Weight	2,2	kg
Operating temperature range	-10 to 55 (95 % rel. humidity without condensation)	°C

Scope of delivery

Plastic carrying case
 PS1600 Mains plug adapter 100 – 240 VAC; 12 VDD; <1600 mA
 Thread adapters M3 / M5 / M8 / 1/4"-28 / UNF 10-32



Optional accessories

Thread adapters for proximity probe M6x0,5; M8x1; M10x1; M14x1; M20x1; 1/4"-28; 3/8"-24; 1/2"-20