



Application

- Rapid and easy calibration of vibration transducers for acceleration, velocity and displacement
- Calibration and fault detection of vibration measuring systems

Properties

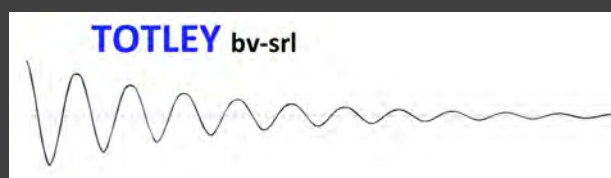
- Load independent vibration level for test objects weighing up to 600 g
- Controlled vibration amplitude of 10 m/s²
- Quartz controlled vibration frequency of 159.15 Hz (radian frequency 1000 1/s)
- Display shows frequency, magnitude, error in percent and calibration date
- Rugged design
- Mains buffered battery operation for laboratory and field use
- Calibration to ISO 16062-44 with factory calibration certificate
- Upon request, we also offer DAkkS-accredited calibration with traceability

Manfred Weber

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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	159,2	Hz
Vibration acceleration	10	m/s ²
Vibration velocity	10	mm/s
Vibration displacement	10	µm
Weight of test object, max.	600	g
Amplitude error, max.	±3 (0 – 40 °C)	%
	±5 (-10 - 55 °C)	%
Frequency error, max.	±0,05	%
Transverse vibration	<10	%
Total Harmonic Distortion (THD)	<1	%
Sensor mounting	M5 tapped hole (90° ± 1°; 7mm deep), magnet	
Level indication	error percent display and acoustic signal	

Connections

Grounding connection	Banana socket 4 mm
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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	10	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

Notice

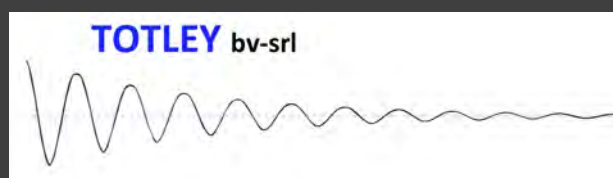
The standard delivery includes a factory calibration sheet.
This is a non-accredited measurement/calibration and consequently not covered by EA MLA.
On request, we offer a DIN EN ISO/IEC 17025:2018 accredited calibration
of the measurand acceleration..

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