Vibration Calibrator

VC20

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

AGT Absolute Gauge Technologies™

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Technical Data

Shaker System		
Vibration frequency	159,2	Hz
Vibration acceleration	10	m/s²
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	

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..