

## VC21 Pot vibrant portable



#### Application

- Rapid and easy calibration of vibration transducers for acceleration, velocity and displacement
- 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/s<sup>2</sup>
- 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
- Calibration to ISO 16062-44 with factory calibration certificate
- Upon request, we also offer DAkkS-accredited calibration with traceability

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Vibration frequency	15,92	40	80	159,2	320	640	1280	Hz
Vibration acceleration	1	1	1	1	1	1	1	m/s²
	2	2	2	2	2	2	2	m/s²
		5	5	5	5	5	5	m/s²
			10	10	10	10	10	m/s²
				20	20	20	20	m/s²
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 <sup>2</sup>	500	500	500	500	500	500	500	g
Weight of test object, 2 m/s <sup>2</sup>	500	500	500	500	500	500	500	g
Weight of test object, 5 m/s <sup>2</sup>		500	500	500	500	500	500	g
Weight of test object, 10 m/s <sup>2</sup>			500	500	500	400	200	g
Weight of test object, 20 m/s <sup>2</sup>				250	200	100	50	g
Amplitude error, max.	±3 (0-40	°C)						%
	±5 (-10 - 5	5 °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 percer	it display and	l acoustic sigi	nal				
Connections								
<b>•</b> • •	_							
Grounding connection	Banana soc	Ket 4 mm						
-	Banana soc	ket 4 mm						
Power Supply				AL				
Power Supply Battery	built-in NiMł	H battery pac	k; 7.2 V / 1.6		)			
Power Supply Battery Charge socket	built-in NiMł Circular pow	H battery pac		Ah 3 (5.5 mm / 2.2	? mm)			
<b>Power Supply</b> Battery Charge socket Operating time per battery charg	built-in NiMł Circular pow ge5 (with 100 g	H battery pac			? mm)			h
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time	built-in NiMł Circular pow ws5 (with 100 y 4	H battery pac			? mm)			h
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage	built-in NiMH Circular pow (c5 (with 100 c 4 11 – 18	H battery pac			? mm)			h V
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A	built-in NiMH Circular pow (with 100 g 4 11 – 18 <1	H battery pac ver connector g weight)			? mm)			h V A
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A	built-in NiMH Circular pow (c5 (with 100 c 4 11 – 18	H battery pac ver connector g weight)			? mm)			h V
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off	built-in NiMH Circular pow (with 100 g 4 11 – 18 <1	H battery pac ver connector g weight)			? mm)			h V A
Power Supply Battery Charge socket Dperating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data	built-in NiMH Circular pow (c5 (with 100 g 4 11 – 18 <1 1 – 30, select	H battery pac ver connector g weight)	r to DIN 4532		? mm)			h V A
Power Supply Battery Charge socket Dperating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors	built-in NiMH Circular pow (c5 (with 100 g 4 11 – 18 <1 1 – 30, select	H battery pac ver connector g weight) ctable	r to DIN 4532		? mm)			h V A min
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors Case material	built-in NiMH Circular pow (55 (with 100 g 4 11 – 18 <1 1 – 30, select 100 x 120 x Aluminum	H battery pac ver connector g weight) ctable	r to DIN 4532		? mm)			h V A min
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors Case material Weight	built-in NiMH Circular pow 65 (with 100 g 4 11 – 18 <1 1 – 30, select 100 x 120 x Aluminum 2,2	H battery pac ver connector g weight) ctable 100 (W x H x	r to DIN 4532 < D)	3 (5.5 mm / 2.2	? mm)			h V A min mm
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors Case material	built-in NiMH Circular pow 65 (with 100 g 4 11 – 18 <1 1 – 30, select 100 x 120 x Aluminum 2,2	H battery pac ver connector g weight) ctable 100 (W x H x	r to DIN 4532 < D)		? mm)			h V A min
Power Supply Battery Charge socket Operating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors Case material Weight Operating temperature range	built-in NiMH Circular pow (4) 11 – 18 <1 1 – 30, select 100 x 120 x Aluminum 2,2 -10 to 55 (95	H battery pac ver connector g weight) ctable 100 (W x H x 5 % rel. humi	r to DIN 4532 < D)	3 (5.5 mm / 2.2	? mm)			h V A min mm
Power Supply Battery Charge socket Dperating time per battery charg Accumulator charging time Charging voltage Charging current < 1 A Automatic switch off Case Data Dimensions without connectors Case material Weight	built-in NiMH Circular pow (5 (with 100 g 4 11 – 18 <1 1 – 30, select 100 x 120 x Aluminum 2,2 -10 to 55 (95 Plastic carry	H battery pac ver connector g weight) ctable 100 (W x H x 5 % rel. humi	r to DIN 4532 ( D) dity without c	3 (5.5 mm / 2.2				h V A min mm

 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

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