

Calibrator CV-01

Handheld Shaker



Application

- Quick, simple and mobile in-field inspection/calibration of vibration transducers
- Easy in-field inspection of sensor wirings of machines
- Quick and easy error search on vibration measurement chains of machines

Application Fields

- Calibration laboratories
- All industrial branches
- Engineering offices
- Educational institutions

Features

- Including international recognized DAkkS-calibration certificate
- 16 mm diameter of the coupling area for an optimal linkage of the DUT
- Sensor mounting with 1/4" - 28 thread
- Suitable for DUT masses up to 150gram
- Tare weight of 950gram allows a very reliable calibration because of the high reaction mass
- Very easy to use
- Automated switch-off after 60s and manual adjustable continuous operation
- Rugged calibrator housing for highest reliability
- Practical, ruggedized transportation case
- Included accessory:
 - Mounting Stud 1/4-28 to 1/4-28
 - Mounting Stud 1/4-28 to 10-32
 - Adhesive Mounting Base 1/4-28 to Hex 3/4"
 - 8 batteries
- Comprehensive accessory optional available (check accessory list)

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Description

The handheld shaker CV-01 is a high quality measurement device from SPEKTRA. Its technical details like the large coupling area and the rough housing are featuring this calibrator as well as its extensive accessory. The well balanced reaction mass leads to a good mass ratio to the weight of the DUT whereby up to 150 g heavy transducers can be reliably tested. Nevertheless the calibrator is still quite handy. That allows a very wide range of applications.

The voltage supply is ensured by 4 AA batteries. The calibrator as well as its complete accessory is delivered in a practical and ruggedized transportation case. In addition each calibrator is calibrated by SPEKTRA before its delivery and gets an internationally recognized DAkkS calibration certificate.

Technical Data:

Frequency	159,16 Hz $\pm 0,02\%$	1000 rad/s $\pm 0,02\%$
Acceleration	10 m/s ² $\pm 2\%$	1,02 g $\pm 2\%$
Velocity	10 mm/s $\pm 2\%$	0,39 in/s $\pm 2\%$
Displacement	10 μ m $\pm 2\%$	0,39 mil $\pm 2\%$
Temperature range	-10 °C...+55 °C	15 °F...130 °F
Max. Payload	150 g	5,3 oz
Max. Torque for mounting of transducers	0,5 Nm	4,4 lbf in
Diameter of the coupling area	16 mm	0,63 in
Length of the calibrator	180 mm	7,1 in
Diameter of the calibrator	58 mm	2,3 in
Weight of the calibrator	950 g	33,5 oz
Dimensions of transport case	240 mm x 280 mm x 105 mm (LxWxH)	9,5 in x 11 in x 4,1 in (LxWxH)
Transverse amplitude	<5% of main axis amplitude	
Distortion	<3%	
Signal duration	60 s (Automatic switch-off), continuous operation (manual selectable)	
Warm-up time	5 s	
Mounting thread	1/4"-28 UNF	
Power supply	4x Mignon (AA) - Batteries	

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Optional Accessory:

Order Code	Description
V081070002	Adhesive Mounting Base Hex 3/4"
V081070003	Adhesive Mounting Base Hex 1-3/16"
V081070004	Mounting Stud 1/4-28 to 10-32
V081070005	Mounting Stud 1/4-28 to 1/4-28
V081070006	Mounting Stud 1/4-28 to M5
V081070008	Mounting Stud 1/4-28 to M6
V081070031	Mounting Stud 1/4-28 to M8
V081070044	Mounting Stud 1/4-28 to 5-40
V081070046	Mounting Stud 1/4-28 to M3
V081070020	Mounting Adapter 1/4-28 to M2,5 (F) - Hex 3/4"
V081070021	Mounting Adapter 1/4-28 to M3 (F) - Hex 3/4"
V081070022	Mounting Adapter 1/4-28 to M4 (F) - Hex 3/4"
V081070023	Mounting Adapter 1/4-28 to 2-56 (F) - Hex 3/4"
V081070024	Mounting Adapter 1/4-28 to 5-40 (F) - Hex 3/4"
V081070025	Mounting Adapter 1/4-28 to 10-32 (F) - Hex 3/4"
V081070026	Mounting Adapter 1/4-28 to M5 (F) - Hex 3/4"
V081070028	Mounting Adapter 1/4-28 to M6(F) - Hex 3/4"
V081070032	Bushing 1/4-28 to M2,5
V081070033	Bushing 1/4-28 to M3
V081070034	Bushing 1/4-28 to M4
V081070036	Bushing 1/4-28 to 2-56
V081070037	Bushing 1/4-28 to 5-40
V081070038	Bushing 1/4-28 to 6-32
V081070039	Bushing 1/4-28 to 10-32
V081079004	Mounting Adapter 1/4-28 to M2,5 (M) - Hex 3/4"
V081079005	Mounting Adapter 1/4-28 to M3 (M) - Hex 3/4"
V081079006	Mounting Adapter 1/4-28 to M4 (M) - Hex 3/4"
V081079007	Mounting Adapter 1/4-28 to 2-56 (M) - Hex 3/4"
V081079008	Mounting Adapter 1/4-28 to 5-40 (M) - Hex 3/4"
V50300001	Sensor Cable Microdot - Microdot 1,5m; also available in 3m and 5m
V50300007	Sensor Cable Microdot - BNC 1,5m; also available in 3m and 5m
V50300017	Sensor Cable Microdot - TNC 1,5m; also available in 3m and 5m

Cable adapters and customized mounting adapters on request.

All data are subject to change without notice

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