

# Mobile Calibrator CV-01

## for vibration transducers and vibration meters



### Applications

- ✓ On-site inspection / calibration of vibration meters
- ✓ Inspection of sensor wirings of vibration test setups
- ✓ Error search on vibration measurement chains of machines

### Selected Data

- ✓ 159.15 Hz (1000 rad/s)  $\pm$  0.02 %
- ✓ 10 m/s<sup>2</sup> - 10 mm/s - 14  $\mu$ m  $\pm$  2 %
- ✓ Max. payload: 150 g
- ✓ Diameter vibration table: 16 mm

### Features

- ✓ Calibration certificate according to DAkkS standard inclusive (corresponds to ILAC-MRA)
- ✓ Big vibration table
- ✓ Suitable for high DUT masses up to 150 g
- ✓ Rugged calibrator housing for highest reliability
- ✓ Transportation case included
- ✓ Standard mounting adapter set included
- ✓ More optional mounting adapters available



## Specification

The mobile calibrator CV-01 for vibration transducers and vibration meters is a high-quality measurement device from SPEKTRA. Among its special features are technical details like the large coupling surface and the rugged housing as well as its extensive list of accessories. The well balanced reaction mass leads to a good mass ratio to the weight of the DUT, allowing for reliable testing of transducers

weighing up to 150 g. Nevertheless, the calibrator is still quite compact, allowing for a very wide range of applications.

The calibrator as well as its complete accessories are delivered in a practical and ruggedized transport case. In addition, each calibrator is calibrated by SPEKTRA before delivery and receives an internationally recognized DAkkS calibration certificate.

### Technical Data

Frequency	159.15 Hz ( $\pm 0.02\%$ )	1000 rad/s ( $\pm 0.02\%$ )
Acceleration	10 m/s <sup>2</sup> RMS ( $\pm 2\%$ )	1 g ( $\pm 2\%$ )
Velocity	10 mm/s <sup>2</sup> RMS ( $\pm 2\%$ )	0.39 in/s ( $\pm 2\%$ )
Displacement (peak)	14 $\mu$ m ( $\pm 2\%$ )	0.39 mil ( $\pm 2\%$ )
Transverse amplitude	< 5 % of main axis amplitude	
Distortion	< 3 %	
Signal duration	60 s (automatic switch-off), continuous operation (manually selectable)	
Warm-up time	5 s	
Payload, max.	150 g	5 oz
Mounting thread	1/4"-28 UNF	
Torque for mounting of transducers, max.	0.5 Nm	4 bf in
Diameter of the coupling area	16 mm	0.63 in
Power supply	4x AA batteries	
Length of the calibrator	180 mm	7 in
Diameter of the calibrator	$\varnothing$ 58 mm	$\varnothing$ 2 in
Weight of the calibrator	950 g	33 oz
Dimensions of the transport case (LxWxH)	240 mm x 280 mm x 105 mm	9.5 in x 11 in x 4.1 in
Temperature range (in operation)	+20 °C ( $\pm 5$ °C)	+68 °F ( $\pm 9$ °F)
Temperature range (storage)	-10 °C ... +40 °C	+14 °F ... +104 °F

All data are subject to change without notice.



## ⊕ Accessories (optional)

Order Code	Description
081070002	Adhesive Mounting Base Hex 3/4"
081070003	Adhesive Mounting Base Hex 1-3/16"
081070004	Mounting Stud 1/4-28 to 10-32
081070005	Mounting Stud 1/4-28 to 1/4-28
081070006	Mounting Stud 1/4-28 to M5
081070008	Mounting Stud 1/4-28 to M6
081070031	Mounting Stud 1/4-28 to M8
081070044	Mounting Stud 1/4-28 to 5-40
081070046	Mounting Stud 1/4-28 to M3
081070020	Mounting Adapter 1/4-28 to M2,5 (F) - Hex 3/4"
081070021	Mounting Adapter 1/4-28 to M3 (F) - Hex 3/4"
081070022	Mounting Adapter 1/4-28 to M4 (F) - Hex 3/4"
081070023	Mounting Adapter 1/4-28 to 2-56 (F) - Hex 3/4"
081070024	Mounting Adapter 1/4-28 to 5-40 (F) - Hex 3/4"
081070025	Mounting Adapter 1/4-28 to 10-32 (F) - Hex 3/4"
081070026	Mounting Adapter 1/4-28 to M5 (F) - Hex 3/4"
081070028	Mounting Adapter 1/4-28 to M6(F) - Hex 3/4"
081070032	Bushing 1/4-28 to M2,5
081070033	Bushing 1/4-28 to M3
081070034	Bushing 1/4-28 to M4
081070036	Bushing 1/4-28 to 2-56
081070037	Bushing 1/4-28 to 5-40
081070038	Bushing 1/4-28 to 6-32
081070039	Bushing 1/4-28 to 10-32
081079004	Mounting Adapter 1/4-28 to M2,5 (M) - Hex 3/4"
081079005	Mounting Adapter 1/4-28 to M3 (M) - Hex 3/4"
081079006	Mounting Adapter 1/4-28 to M4 (M) - Hex 3/4"
081079007	Mounting Adapter 1/4-28 to 2-56 (M) - Hex 3/4"
081079008	Mounting Adapter 1/4-28 to 5-40 (M) - Hex 3/4"

Cable adapters and customized mounting adapters on request.

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