

# Mobile Calibrator CV-10

## One-Stop Solution for On-Site Calibration



### Application

- On-Site calibration of vibration transducers (acceleration, velocity, displacement)
- On-Site calibration of proximity probes (optional)
- Quick, simple and mobile in-field inspection/calibration of vibration transducers

### Features

- Including international recognized calibration certificate (ISO 17025, traceable to PTB, NIST,...)
- Different operation modes (manual, sweep, stepped sine) for quick checks as well as automatic operation
- Hi-Res color display
- Optional PC software allowing to
  - ◆ define calibration setups easily
  - ◆ store transducer data
  - ◆ store and print calibration certificates
  - ◆ organize measurement campaigns
- Integrated signal conditioning for transducers with voltage, IEPE, charge and AC current output
- Optional signal conditioning e.g. for piezo-resistive transducers available via extension connector
- Internal reference accelerometer (standard) or external back-to-back accelerometer (option)
- High max. payload up to 900 gram
- Rugged case for daily on-site operation
- Mobile solution for convenient transport, e.g. as cabin bag or checked in bag in airplanes

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### Technical Data:

Frequency Range	5 Hz ... 10 kHz	420 ... 600,000 CPM
Max. Acceleration	200 m/s² pk	20.39 g pk
Max. Velocity	700 mm/s	27 in/s
Max. Displacement	5 mm pk-pk	196 mils pk-pk
Op. Temperature Range	0 °C...+50 °C	32 °F...122 °F
Max. Payload	900 g	31.7 oz
Max. Torque for mounting of transducers	2 Nm	17.7 lbf in
Weight	8.5 kg	18.7 lbs
Dimensions (HxWxD)	146 mm x 347 mm x 295 mm	5.7 in x 13.7 in x 11.6 in
Reference Accelerometer	quartz reference accelerometer mounted inside the shaker armature (connector for optional external back-to-back reference accel. available)	
Transverse amplitude (% of main axis amplitude)	according to ISO 16063-21	
Distortion	<3% ( using SPEKTRA's unique distortion compensation technology)	
Measurement Uncertainty (acceleration)	7 Hz - 2 kHz ±3% >2 kHz - 10 kHz ±6%	
Mounting thread	1/4"-28 UNF female	
Power supply	100V ... 240 V, 50 ..60 Hz (external)	
Rechargeable Battery	sealed gel lead acid rechargeable battery (internal) typical battery operation up to 10 hours (100 gram payload, 100 Hz, 1g pk) (batteries with higher capacities on request)	
Operation Modes	Manual Operation, Sweep Mode (automatic), Stepped Sine Calibration (automatic) Transfer Calibration Mode (calibration or check of the system via calibrated reference transducer)	
Signal Conditioning	Integrated for IEPE, Charge, 4 ..20 mA transducers Optional signal conditioners, e.g. for piezo-resistive transducers, available via extension connector	
Data Exchange	Exchange of transducer data, calibration setups, calibration records via CSV (comma-separated values) text files Optional data exchange with SPEKTRA CS laboratory calibration systems  Data exchange via USB flash drive (Ethernet, WLAN or Bluetooth optional)	