



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/s²
- 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

| | | | | | | | | |
|--|---|-----|-----|-------|-----|-----|------|------------------|
| Vibration frequency | 15,92 | 40 | 80 | 159,2 | 320 | 640 | 1280 | Hz |
| Vibration acceleration | 1 | 1 | 1 | 1 | 1 | 1 | 1 | m/s ² |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | m/s ² |
| | | 5 | 5 | 5 | 5 | 5 | 5 | m/s ² |
| | | | 10 | 10 | 10 | 10 | 10 | m/s ² |
| | | | | 20 | 20 | 20 | 20 | m/s ² |
| 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 ² | 500 | 500 | 500 | 500 | 500 | 500 | 500 | g |
| Weight of test object, 2 m/s ² | 500 | 500 | 500 | 500 | 500 | 500 | 500 | g |
| Weight of test object, 5 m/s ² | | 500 | 500 | 500 | 500 | 500 | 500 | g |
| Weight of test object, 10 m/s ² | | | 500 | 500 | 500 | 400 | 200 | g |
| Weight of test object, 20 m/s ² | | | | 250 | 200 | 100 | 50 | g |
| Amplitude error, max. | ±3 (0 – 40 °C) | | | | | | | % |
| | ±5 (-10 - 55 °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 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 | 1 – 30, selectable | | | | | | | 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..