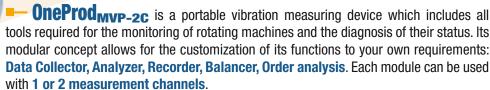


Vibration Analyzer, Collector, Balancer, Two-channel DAT Recorder







Based on the most recent technology, **OneProd**_{MVP-2C} offers advanced performances in a very compact design:

- Color display
- **2x40** kHz vibration channels + trigger input
- RS232 and USB communication
- Long-time waveform
- 512 MB memory
- Fast measurements using the Flash acquisition™ mode
- Built-in contactless laser-sighting rotation speed and temperature transducers, requiring no external accessories
- Automatic identification of measurement point by contactless reading of electronic tags eTag™
- OneProd_{MVP-2EX} *, Intrinsically Safe version to perform your measurements in areas where risks of explosion are permanent (Zone 0)



OneProd_{MVP-2C}: Data collector

For monitoring your machines jointly with the **OneProd**_{XPR-300} predictive maintenance software:

- Three levels of functions, Easy, Advanced and Premium, are available to match your requirements costeffectively
- Flash acquisition
- Two-channel data collection
- Additional measurements (off route) with full capability

OneProd_{MVP-2C}: Balancer

This module is used to correct balancing defects on your machines.

- 1 to 4 balancing planes
- Graphic representation
- One-run balancing
- Information on the measurement steadiness (rotation speed, vibration)
- Definition of correction masses
- Assessment of balancing quality

OneProd_{MVP-2C}: Analyzer

Measurements and diagnoses directly on your instrument.

- Available functions: real-time or averaged time signal, orbit, autospectrum
- The two-channel option offers many possibilities, such as orbit analysis for journal bearing machines or transfer function for the characterization of mechanical resonance.

OneProd_{MVP-2C}: Order analysis

The Order Analysis module of OneProd MVP-2C is used to measure the behavior of a machine during shutdown and start-up phases. This type of analysis allows for the detection of phenomena that are difficult to observe in stabilized state: resonance, critical speeds, bearing instabilities, etc.





Technical specifications MVP-2C

General features

- Color back-lit screen, 320 x 240 pixels, 80 x 60 mm
- Keyboard with 21 multifunction touch-sensitive keys
- Memory: 512 MB
- Communication: RS232 and USB
- Pretest function
- Li-lon battery, operating lifetime: 8 hours under intensive use
- Casing: ABS polycarbonate, IP65
- Compliant with EC standards
- Dimensions: 220 x 130 x 60 mm
- Weight: 0.9 kg (battery included)
- IP65 protection rating
- Operating temperature: from -10°C to 50°C
- Humidity: 90% without condensation
- Headphone output
- Intrinsically safe version: MVP-2EX, Ex II 1G / EEx ia IIC T4 *

Acquisition

- 2 acquisition channels + trigger input, 40 kHz (2nd channel in option)
- Inputs: IEPE, ± 10 V and ± 24 V, AC and DC
- Integration: 0,1 or 2 for acceleration, velocity or displacement
- Analysis on any type of signal: vibration, force, pressure, current (user-defined parameter and unit)
- Compatible with triaxial accelerometer
- Measurement modes allowing for optimized operating lifetime, dynamics and calculation time

Overall vibration level

- Standards VDI2056, NFE90100, IS02954 and 10816, VDI2063
- Detection: RMS value, true or equivalent peak value, true or equivalent peak-to-peak value
- Defect factor from 0 to 12 (Indicator for bearing degradation at standard speed)
- Kurtosis measurement (shock detection for low-speed bearings)
- Alarms: 4 alarm types, from 2 to

- 4 threshold levels, trend alarm
- Display: thresholds, previous measurement, instantaneous measurement and stored measurement
- Programmable acquisition time
- Bargraph display
- Level displayed in EU and dB
- Built-in laser-sighting pyrometer**: Measurement range: from 0 to 200 °C, Measurement distance: from 1 to 30 cm, Response time: 1 s
- Built-in laser-sighting tachometer**: Measurement range: from 0 to 60000 RPM, Measurement distance: up to 2 m
- Any type of data by DC or keyboard input

Time analysis

- Number of samples: up to 32 K (max. 16 K in 2-channel mode) and 512 K with the Recorder option
- Sampling frequencies: up to 102.4 kHz
- Trigger on signal or trigger input. Adjustable post or pre-trigger
- Averaging: from 1 to 4096, exponential or linear weighting
- Signal demodulation after bandpass filtering (envelope)
- Orbit with 2-channel option

Spectral analysis

- Number of lines: from 100 to 12800 (max. 6400 maxi in 2-channel mode)
- Frequency bands: up to 40 kHz
- Zoom factor: 1, 2, 4, 8, 16, 32, 64, 128
- True zoom
- Averaging: from 1 to 4096, exponential, linear or peak-hold weighting
- Overlap: 0, 50, 75%
- Windowing: Rectangular, Hanning, Flat-top
- Trigger on signal or trigger input. Adjustable post or pre-trigger

- Envelope: spectrum of signal demodulated in a band-pass filter (width = from 1/2 to 1/128 around any center frequency)
- Phased spectrum for vector measurement
- Display: Lin/Log, automatic scaling, EU/dB, Hz/RPM
- Display of real-time spectrum or of averaging during acquisition
- Cursor: simple, harmonic and sideband cursors with peak coincidence and list of values. Peak search. Cursor functions are active in measurement mode.
- Two-channel functions of the Analyzer mode: cross spectrum, transfer function, transmissibility, coherence

Octave (CPB)

- Resolution: 1/1, 1/3 and 1/12 octave
- Analysis bands: from 1 Hz to 16 kHz

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*OneProd MVP-2EX:

ATEX version, Ex II 1G / EEx ia IIC T4 Specific characteristics:

- Screen: 16 gray scales, 320 x 240 pixels,
- Battery, operating life: 6 h
- Weight: 1.3 kg (including battery)
- Maximum operating temperature in explosive area: 40°C
- Functions not available: tri-axial compatibility, electronic tags, headphone output.
- ** Class 2 laser, wavelength: 630-680 nm, maximum power: 1 mW according to Standard NF EN 60825-1

