

EICALC
PC BASED PORTABLE ANALYZER

Datasheet

Portable Vibration Analyzer



Only for illustrative purposes.

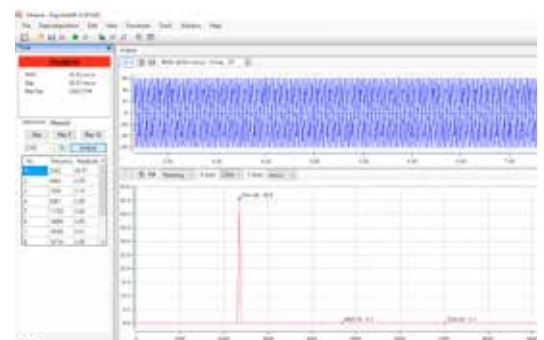
Overview

EI-Calc is a Real-Time 1-Ch Vibration Analyzer with a wide range of powerful FFT spectral analysis tools and an easy-to-use visualization interface.



Features

- Real time signal and FFT display
- Gear box frequency calculation
- Diagnosis tool
- Crest factor
- Million point FFT calculation
- Import and export ASCII files
- Acceleration, Velocity and Displacement measurements
- Early detection of bearing failures (acceleration envelope)
- Analysis Tools
- Units (g, mm/s², mm/s, in/s, um, mils, gE)
- FFT Windows: Rectangular, Hanning, Hamming, Flap-top, Blackman, Bartlett, Kaiser, 4-TermCosSum, 6-TermCosSum & 11-TermCosSum.



Order	In (Hz)	Out (Hz)	BP (s)	Gain	Transfer	Order 2
1	10	2342.00	1.00	23420.00	19.30	
2	12	8	1951.67	0.30	11700.00	9.00
3	7	15	1832.94	2.79	25902.94	13.71
4	5	20	2356.41	1.54	32702.14	26.76
5	6	8	13603.36	4.68	23612.88	35.71
6	3	6	1944.36	5.70	107543.82	45.42
7	12	7	7443.33	3.36	38186.71	23.40
8	10	10	6761.07	2.19	0.00	9.00

EI-Calc includes:

Accelerometer



Dynamic Impact Shock: 50g peak (max shock 5000g)

Freq. response (+/- 3dB): 0.32 - 13 000 Hz

Freq. response (+/- 10%): 2 - 10000 Hz

Sensitivity: 100 mV/g +/- 10%

Transverse sensitivity: < 5%

Power supply: 18-30 V / 3-8 mA

Short-circuit protection

Operation temp.: -10 - 50 °C

Protection grade: IP 68

Impact resistance: IEC 60028-27

Standard 2-Pin MIL connector

Includes 2-Pin to 4-Pin cable and Magnetic Base

Stainless steel body

Weight 50g

1-Channel interface



Dimensions: 6cm x 2cm x 1cm

Sample rate: 11 025, 22 050, 44 100Hz

Weight: 12 grams (w/o cable)

Channels: 1

Plug and play ready

Calibrator



Soft Case



Installation CD & User Manual



Software highlights

Displacement: 0.05 um to 30 mm (0.002 to 1200 mils)

Velocity: 0.002 to 3000 mm/s (0.0001 to 120 mm/s)

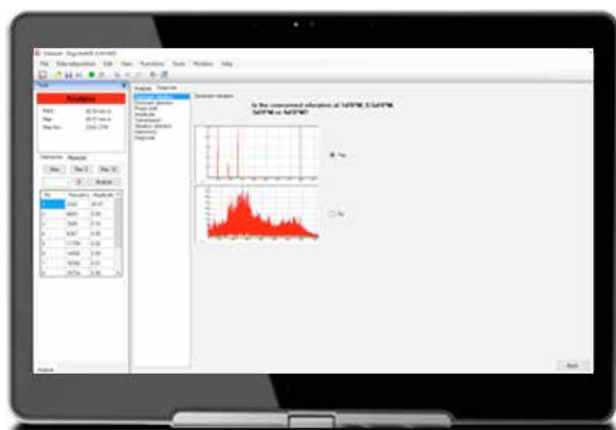
Acceleration: 0.0001 to 50 G's PP

Lines of resolution: > 2 000 000

FFT windows: Rectangular, Hanning, Hamming, Flaptop, Blackman, CosSum, Bartlett, Kaiser

System requirements.

Minimum requirements for the computer or tablet* to install **EI-Calc**:



- Intel® Celeron® (1.60GHz / 400MHz FSB) or higher
- 1GB RAM DDR2 or higher
- Windows 10 (works on Windows 7, 8 & 8.1*)
- SVGA display or higher (touch enabled displays are supported)
- 300 MB minimum free hard disk space
- USB Port

*Windows RT devices are not supported.

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