



Your tool for fast and secure machine analysis!

ME 42™ – Machine Evaluator

- Enter the speed of the machine, place the transducer at the chosen points for measurement and ME 42™ will tell you in plain language what is wrong with the machine.
- ME 42™ identifies all common faults in rotating machinery, such as unbalance, misalignment, bearing failure, resonance, looseness etc.



With unique built-in knowledge!

ME 42™ has a unique built-in knowledge of rotating machine analysis

ME 42™ includes a rule-based analysis tool based on many years experience of vibration problems. Some of the specifics are:

- Defined measurement procedure in 3 directions according to ISO 10816-1.
- Frequency analysis with high accuracy.
- 3 different bearing condition methods give high quality data.
- Rules are based on knowledge gathered from more than 40 years of vibration measurement.
- Direct result in the handheld instrument.
- Evaluation of probable faults is presented in plain language.

Just as useful for the beginners as for the experienced technician

No training is necessary for doing an automatic evaluation with ME 42™. The instrument can also be used as an ordinary vibrometer, just measuring vibration levels.

If you have experience from vibration measurements there are great possibilities for settings of your own and manual analysis.

Analyse vibrations with the help of ME 42™

ME 42™ software gives you the possibility to save measurement data in a PC for a deeper analysis.

From every point of measurement there are several frequency spectra and top lists showing the highest vibrations.

Technical specification

Dynamics: 16 bits A/D Sigma/Delta converter with >74 dB dynamics
Antialiasing filter: Digital and analog antialiasing filter
Frequency range: 0.4 –12 200 Hz
Frequency step: 0.04 Hz resolution
Sampling speed: Up to 31 250 Hz, selectable
Frequency range: 0.4-150 Hz, 0.4-300 Hz, 0.4-1 500 Hz, 0.4-3 000 Hz, 0.4-6 000 Hz, 0.4-12 200 Hz
Resolution: 400, 800, 1600, 3200 lines
Integration: None, single, double
Demodulation: Built in with 2 selectable filters HP 600 Hz, 2 kHz
Bearing condition: L-method velocity mm/s RMS, g method acc. g 2-12 kHz RMS
Units: Metric, imperial, selectable
Frequency/speed: Hz or RPM

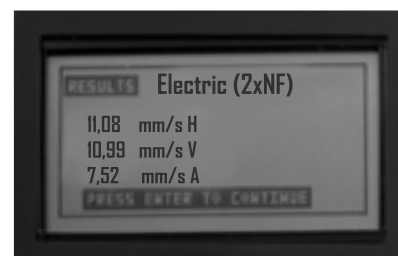
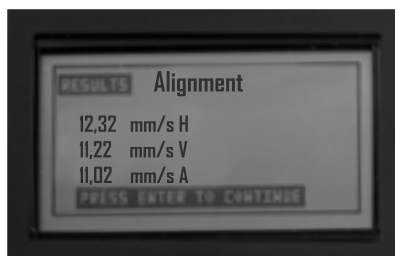
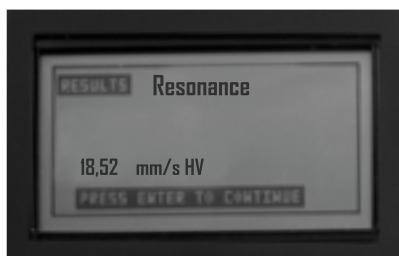
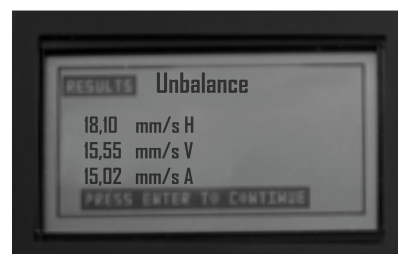
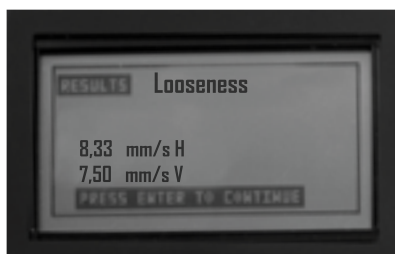
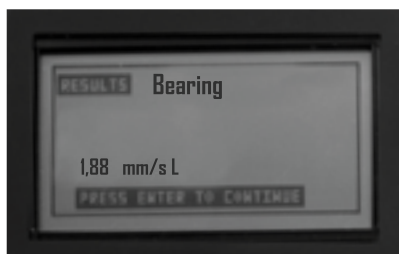
Processor: ARM 32 bit architecture flip chip BGA
Memory: 2 MB
Storage: 10 bearings in 3 directions and configuration data
Communication: Serial RS232 115KBaud

Input: Acceleration:0-20 g (RMS)
Velocity:0-199.99 mm/s (RMS)
Amplitude:0-1999.99 um (0-P)

I/O: 2 mA CC Accelerometer, 5V powered tachometer, RS232, charger
Transducer sensitivity: 100 mV/g or 500 mV/g, selectable
Auto. power down: 5, 10, 15, 20 min or off
Battery: 5x1800 mAh NiMh, or std AA, standard charger
LCD: Twist 64x128 pixel
Accelerometer: ME 42 integrated cable/BNC 100 mV/g nominal 0.5-15 000 Hz with magnet

Operational temperature: 0-50 DEG C (32 to 122 DEG F) 20 mA
Dimension: 105x220x35mm (4.13x7.95x1.38")
Weight: 400 g ex. battery
Op. time: Ca 25 hours operational
Stand by: 0.05 mA or less
Charge time: 4 hours
Optical tachometer: 0 – 250 000 RPM
Current consumption: 20 mA

Languages: English, Spanish, French, German, Russian, Hungarian, Finnish, Swedish



Authorized reseller: