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N500 – Technical data

Functions

- Measure of the overall vibration value (acceleration, velocity, displacement)
- Measure of the vibration phase
- FFT analysis
- Monitoring of the overall vibration in the time and the frequency domain
- Trend of the vibration
- Balancing 1 to 4 planes
- Data storage for transfer to PC

Measuring capabilities

- RMS value
- Peak value (Pk)
- Peak to Peak value (PP)

Measuring unit

- Acceleration: [g]
- Velocity: [mm/s] or [inch/s]
- Displacement: [µm] or [mils]

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Inputs

- 2 indipendent and contemporary measuring channels (acceleration transducer, velocity transducer, no-contact, any signal max 5V-PP)
- 1 photocell channel (velocity and angle reference)
- 2 USB doors for data exchange

Vibrometer function

- Measure of the overall vibration value in predefined (10-1000 Hz ; 3-300 Hz. ; 10-10000 Hz.) or set by user (in the field 3-20000 Hz.) frequency bands
- Measure of the value and phase of the first 5 harmonics

FFT function (frequency analysis)

- FFT analysis (manual/trigger)
- Maximum settable frequency (25; 100; 500; 1000Hz; 2.5; 5; 10; 15kHz)
- Resolution (100; 200; 400; 800; 1600; 3200 lines)
- Averages number: from 1 to 32
- List of the main peaks

Monitor function – Data Logger

- Registration and indication of the overall vibration value during time
- Storage and visualization of the overall vibration value at changing of the rotating velocity

Balancing function

- Number of the correction planes: from 1 to 4
- Graphic indicator of the measure stability
- Polar representation of unbalancing
- Step-by-step guided balancing procedure, with possibility of editing and intermediate modifications
- Possibility of storage of the influence coefficients after self learning
- Certificates printing (by PC)

Analysis capacity

- Maximum measuring frequency 15kHz
- Dynamic field 108dB
- Risolution: unil 3200 lines
- Analysis velocity: 2.5 averages/sec (400 lines – 1kHz)

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General characteristics

- Display: ¼ VGA FSTN monocromatic 320x240 – 5.7” back-lighted
- A/D convertor: resolution 24 bit
- Data memory: 10.000 FFT at 800 lines
- Dimensions: approx. 230 x 230 x 58 mm
- Weight: 1.4 kg
- Processor with static memory of 256 MB

Operating conditions

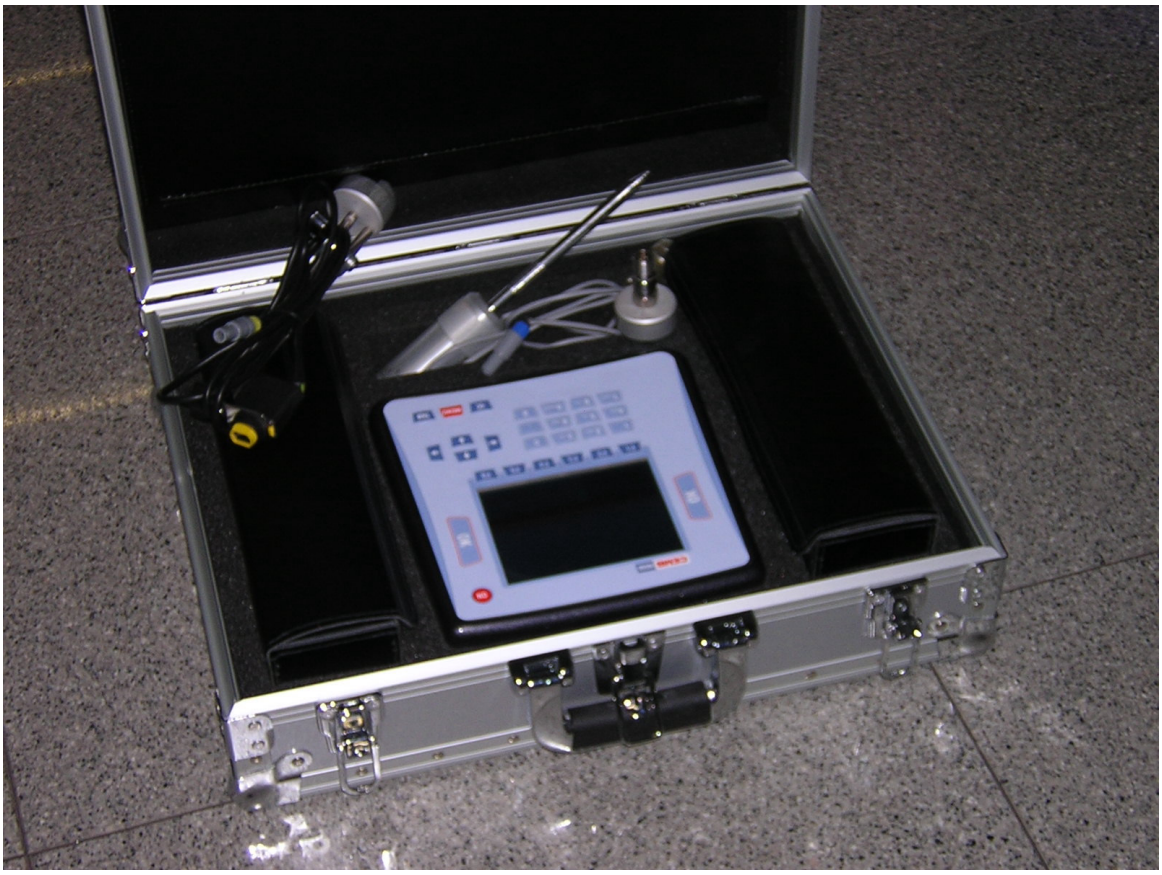
- Temperature: from -10° to +50° C
- Air humidity: from 0 to 95% without condensate

Power supply

- Rechargeable Litio battery 6 Ah
- Charge time: less than 5 hours (from completely discharged battery)
- Battery charger 100-240 V, 50/60 Hz (24 V, 1.5 A)
- Battery life: over 10 hours typical use

Software N500-PC (optional)

- Measures reading from N500 – connession by USB
- Visualization of wave forms, spectra, trends
- Definition of
  Plants ◊ Stations ◊ Machines ◊ Measuring points
- Database complete management with history measures, comparisons, trend
- Vibration and/or balancing certificates printing



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