



ECOPHYSIKA-111V



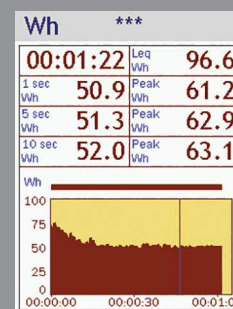
NEW FEATURES

Sensor Manager handles the sensor catalog, sensor and calibrator cards, calibration settings

Sensors			
Sound pressure			
Pa			
Acceleration			
m/s ²	m/s	m	
Velocity			
m/s ²	m/s	m	
Voltage			
mV/s	mV	mV*s	mV*s ²
Engineering unit			
EU/s	EU	EU*s	EU*s ²

List of available transducers can be accessed in a measurement program

Graphic time-history provides visual presentation of the process development in real time



Acoustic Calculator selects areas of interest in the time history and makes calculation for the selected areas only

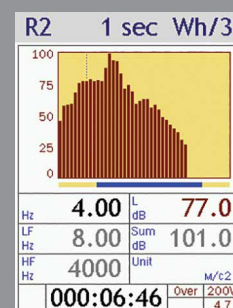
Post-processing of auto-saved files may be done by the analyzer without an external PC

Repeated Measurement combines data of several manual measurements in a common file, and provides tools for statistics calculation

Leq		Fh
Mean	m/s ²	4.84E-3
S	m/s ²	347.55E-6
Max	m/s ²	5.74E-3
Min	m/s ²	4.24E-3
+ 1	000:00:23	75.2
+ 2	000:00:19	72.6
+ 3	000:01:40	72.8
+ 4	000:00:51	74.1

Notepad is a text logbook of measurements

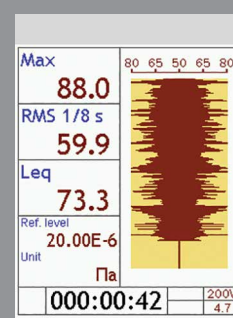
3-channel 1/3-octave band analysis with frequency weightings



Derivative units (e.g., calculation of velocity or displacement spectra for acceleration transducers)

Multichannel signal registrator mode

USB Audio



Real-time data transfer through the USB port without extra interface adapters

APPLICATIONS

Whole-Body and Hand-Arm Vibration measurement

Building vibration

Machine testing and certification

Research & Development

FEATURES

Number of channels: 3

Direct connection of IEPE transducers

Whole-Body and Hand-arm vibration measurement (GOST ISO 8041)

Tri-axial measurement of octave and 1/3-octave band spectra

FFT analyzer, narrow band analyzer (up to 20 kHz)

Autostorage of measured data and/or signal digital time waveforms to the instrument memory

Post-processing of the recorded digital signals

4 GB non-volatile memory

Real time data transfer to external devices, remote control of the instrument

Display of the measurement results from external digital transducers

SETS OF FIRMWARE MEASUREMENT PROGRAMS

Engineering Vibrometry WE

1/3- octave analyzer XYZ

FFT analyzer XYZ

Sanitary Vibrometry WE

Whole Body Vibration WE

Hand-Arm Vibration WE

Digital Transducers DIN

Ecosound -DIN

P3-81-01, P3-81-02

EcoLight-01-DIN

P3-80-H300, P3-80-E300

P3-80-H300, P3-80-E300

P3-80-H400, P3-80-E400

P3-80-E

TTM-2-04-DIN

EcoTerma-1



TECHNICAL SPECIFICATION

Standards

Human vibration meter:	GOST ISO 8041
Spectrum analyzer:	GOST R 8.714-2010, IEC 61260 (class 1)

Vibration meter short specification

Measurement level range (Wk), dB re $1 \cdot 10^{-6} \text{ m/s}^2$:	33 to 184*
Frequency weightings:	Wb, Wc, Wd, We, Wj, Wk, Wm, Wh, Fk, Fm, Fh
Time metrics:	RMS, MTVV, Peak, Leq, VDV

* *May be limited due to accelerometer selection.*

1/n-octave band analyzer

Octave band filters, Hz:	1 - 16000
1/3-octave band filters, Hz:	0,8 – 20 000

FFT analyzer

FFT bandwidth	187 Hz, 375 Hz, 750 Hz, 1,5 kHz, 3 kHz, 6 kHz, 12 kHz, 24 kHz
FFT window	1024 points
FFT lines displayed	200
ZOOM	4 to 32

Power 4 x LR6 type batteries (AA size) or external source through USB port

Weight, kg <0,6

Size (L x D x H), mm, 188 x 86 x 35

Interfaces

Display	TFT, color, 320 x 240
D-OUT	galvanic isolated UART
D-IN	Input for digital transducers

USB

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