

The Harmony
of
Solutions



RL-R19 DAQ system and spectrum analyzer is intended for measuring, registering and analyzing vibration data and other physical processes. **RL-R19** enables the user to:

- acquire and transfer data from vibration sensors.
- examine the vibration condition of machines, mechanisms, mechanical constructions, bearings, gearings, etc.
- detect various defects of machines, mechanisms, mechanical constructions, bearings, gearings, etc.
- balance rotors of machines and mechanisms.

The principle of building up the software of **RL-R19** devices enables forming a set of functional options, intended to solve specific problems. The only obligatory option is «Basic Software», other options may be combined in any configuration.

Technical Features

Number of measuring channels	4 ÷ 8
Tacho-channel	1
Range of measured signals, V	±20
Frequency range of measured signals, Hz	DC, 0.1 ÷ 60000
Mode of measuring channels	IEPE, linear, single-ended
FRF non-linearity at 1 kHz, dB	
in the range of 1 ÷ 40000 Hz	≤ 2
in the range of 0.1 ÷ 60000 Hz	≤ 5
DAC/ADC resolution, bits	24
Sensor type	IEPE, linear
Logical inputs and outputs	4 inputs and 4 outputs
Screen resolution	640 × 480
Screen diagonal, inches	5.7
Temperature range, °C	-30 ÷ +60
Battery capacity, mAh	8000
Dimensions without handle, mm	260 × 152 × 55
Weight, kg	2.3
Protection	IP65
Power supply	Autonomous (> 8 hours) 230 V AC 12 ÷ 36 V DC



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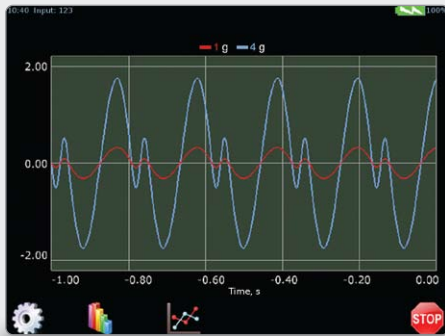
Data Acquisition System and Spectrum Analyzer **RL-R19**



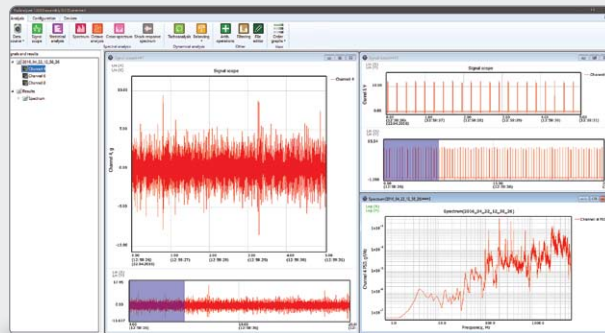
The recorded signals can be viewed or analyzed in the device itself or using VisAnalyser desktop software. VisAnalyser is a powerful program complex intended to record and analyze signals of different dynamic processes. The sources of signal can be different: the data can come from DAQ-devices in real-time or from a recorded file.

The following options are available:

- Basic software.
- Recording.
- Part-octave analysis.
- Statistic analysis.
- Balancing.
- Signal generator.
- Repeater.
- Automatic measurements.
- Filtration.
- Shock analysis.
- Synchronization.



Channel	RMS	Freq	THD
Channel 1	18.312 mm/s	239.9991 Hz	13.0007 %
Channel 2	0.016 g	0.000000 Hz	0.0000 %
Channel 3	0.028 g	0.000000 Hz	0.0000 %
Channel 4	0.086 V	239.8806 Hz	33.7360 %
Channel 5	0.144 V	0.000000 Hz	0.0000 %
Channel 6	0.063 g	0.000000 Hz	0.0000 %
Channel 7	0.082 g	0.000000 Hz	0.0000 %
Channel 8	0.003 V	0.000000 Hz	0.0000 %



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