

The Harmony
of
Solutions



RL-M57 is an advanced tool of vibration monitoring and diagnostics, intended for process and machinery monitoring, as well as collision and fault detection.

As many as 1000 devices can be connected together by LAN to form an integrated measurement unit, capable of organizing and coordinating the whole process monitoring system in your facility.

RL-M57 can operate in 3 modes:

- **Monitoring** – key signal parameters evaluation with automatic system reaction;
- **Continuous recording** for data accumulating and subsequent analysis;
- **Shock detection** with 0.2 ms system reaction time.

Main Features:

| | |
|---|------------------------|
| Analog input channels for vibration measurement | 4 |
| Frequency range, Hz | 0.5 ÷ 10000 |
| Input channels configuration | IEPE, linear |
| DC voltage input channels | 2 |
| AC measurement range, V, peak | ± 20 |
| DC measurement range, V | ± 10 |
| Digital inputs/outputs | 8 inputs, 8 outputs |
| Response time, ms | 0.2* |
| Basic data transfer interface | Ethernet 10/100 Mbit/s |
| Additional data transfer interface | RS-485 |
| Supply voltage, V | 24 (± 20%) |
| Dimensions, mm | 162 × 115 × 61 |
| Weight, kg | 0.35 |

* Response time – time interval between shock and control signal appearing on the digital output



«RULA Technologies», SIA
Birzes Iela 32-57, RIGA,
LV-1016 Latvia

Phone: +371 6610 2166
e-mail: contact@rula-tech.com
<http://rula-tech.com>



Condition Monitoring System **RL-M57**



The **RL-M57** device is used with vibration monitoring software VibroMon, organized as a human-machine-interface. In the software the user can specify the vibration parameters to be measured, as well as integrate the device into the existing process control system of your facility (open API provided).

One **RL-M57** device supports control of up to 24 different parameters. For each of the parameters the user can set abort and tolerance levels.

Available parameters:

- RMS of acceleration, velocity, displacement in the frequency range;
- peak acceleration in the preset time;
- RMS or amplitude of acceleration, velocity and displacement on rotation frequency and its harmonics;
- RMS and amplitude values in full spectrum.

VibroMon also has the option of online monitoring for real-time control of your equipment in the interactive mode. Moreover, the software provides the function of trend analysis in order to analyze the development of faults in the monitored equipment as part of predictive maintenance.



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