

**Vibration
Control
System**

RL-C21M



Top-of-the-line vibration control system RL-C21M for electrodynamic shakers, featuring up to 8 input channels in one box, direct control of power amplifiers and climatic chambers, as well as support for voltage and temperature sensors.

RL-C21M has a modular scalable architecture and constructively comes in two modifications with up to 8 input channels in one unit. It can be scaled up to 64 input and 16 output channels.

The system provides direct power amplifier control and combined vibration and climatic tests. The controller records and visualizes temperature-related data automatically. RL-C21M is used with a specialized vibration test software package TestUP.

Main Parameters

- Frequency range: DC ÷ 80 kHz
- Extended voltage measurement range up to 40 V
- Power amplifier control
- Direct current and voltage measurement
- Temperature and thermocouple connection

Inputs

Analog channels	1 ÷ 64
ADC resolution, bits	24
Frequency range, Hz	DC ÷ 80000
Sensortype	IEPE, linear, charge, TEDS, displacement, velocity, force
Voltage range, V	±10 ÷ ± 40
Dynamic range, dB	≥120
Sample rate, kHz	up to 216
Number of digital inputs	8

Outputs

Analog channels	1 ÷ 16 control channels, Up to 8 COLA channels
DAC resolution, bits	24
Frequency range, Hz	DC ÷ 80000
Relative error of frequency setting	≤5×10 ⁻⁵
Voltage range, V	±10 ÷ ± 40
Dynamic range, dB	120

Main Hardware Features

Dimensions, mm	395 × 280 × 55
Weight, kg	2.7
Supply voltage, V	110 ÷ 245
Temperature range, °C	+10 ÷ +40°C

Software Features

- Sine
- Resonance Search and Tracking Dwell
- Random
- Shock
- Sine on Random, Random on Random, Sine and Random on Random, Sine on Sine
- Field Data Replication
- Shock Response Spectrum
- Transient Time History
- Transient Capture
- Data Recording
- Multishaker tests
- Fatigue tests, etc.

Applications

- Vibration tests according to ISTA, ISO, SAE, MIL-STD810H/G, IEEE, etc., in Aerospace, Automotive, Telecom and other industries
- Tests of serial production
- Research and Development
- Fatigue tests

Software



- All software updates are free
- Remote software options activation with a key
- Intuitive and user-friendly interface
- Compatibility with all versions of Windows



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