

RG-50 1/4" ICP Microphone



The 1/4"-measuring microphones of the RG-50 range are very precise pressure transducers.

The model RG-50 has integrated electronics and can be delivered with sensitivities from 10 to 100 mV/Pa at tolerances of within ± 2 dB. Special custom versions are also possible. Power supplies for the microphones can be either a constant current source of 2 – 6 mA (standard version) or a constant voltage source 4 – 30 Volts.

Normally the microphones are fitted with BNC-connectors (fem.) allowing standard BNC-BNC cables to be used. Other connectors such as TNC, SMB, Lemo or μ dot are also available on request. These microphones are also quite suitable for array applications.

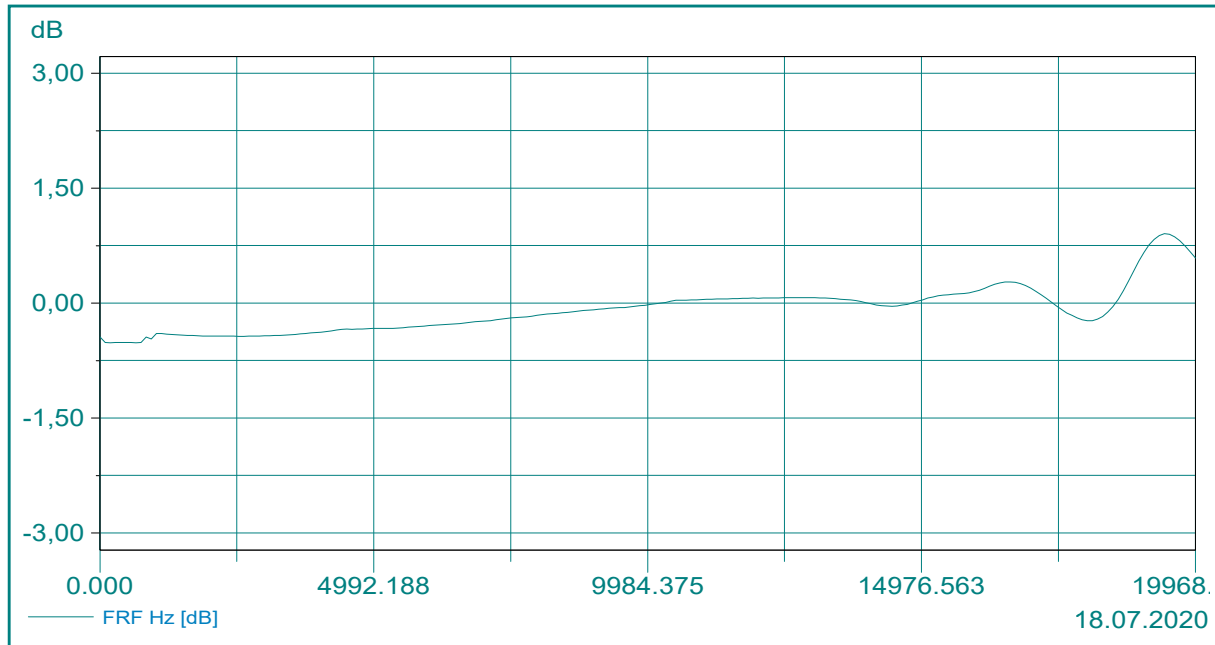


TECHNICAL DATA TYPE 1

Frequency response	3 Hz – 4 kHz: ± 0.5 dB 4 kHz – 20 kHz: ± 1.5 dB
Temperature range	-10 – +50 °C
Sensitivity	≈ 50 mV/Pa
Noise	(Lin: 20 Hz – 20 kHz) ≈ 35 dB (SPL) („A“-weighted) ≈ 26 dB (SPL)
Max. peak SPL	≈ 130 dB (ref. 20 μ Pa)
Constant supply current	2 – 6 mA
Output impedance	50 Ω
Dimensions – total length	93 mm
Tube – diameter	8 mm
Connector	BNC (fem.)
Weight	23 gr.

Certificate of Factory Calibration

1/4" IEPE Free Field Measurement Microphone
Type : RG-50
Serial No. : 1006
Sensitivity : 50.0 mV/Pa (@ 1 kHz | 22 °C | 1016.6 hPa)



BSWA Full Frequency Coupler CA916 # 540002
Reference Microphone # MPA231
Svantek SV30A # 14126
ROGA Plug.n.DAQ # 531
Software : DASyLab Pro 2020

Calibrated by

Rogá

