



## RG-50 Free-Field Microphone

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

The model RG-50 has integrated electronics and can be delivered with sensitivities from 35 to 100 mV/Pa at tolerances of within  $\pm 2$  dB. Special custom versions are also possible. Power supplies for the microphones can be a IEPE constant current source of 2 – 6 mA.

Normally the microphones are fitted with BNC-connectors (fem.) allowing standard BNC-BNC cables to be used. Other connector version TNC, is also optional available. These microphones are also suitable for array applications.



### TECHNICAL DATA WS3F TYPE 1

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

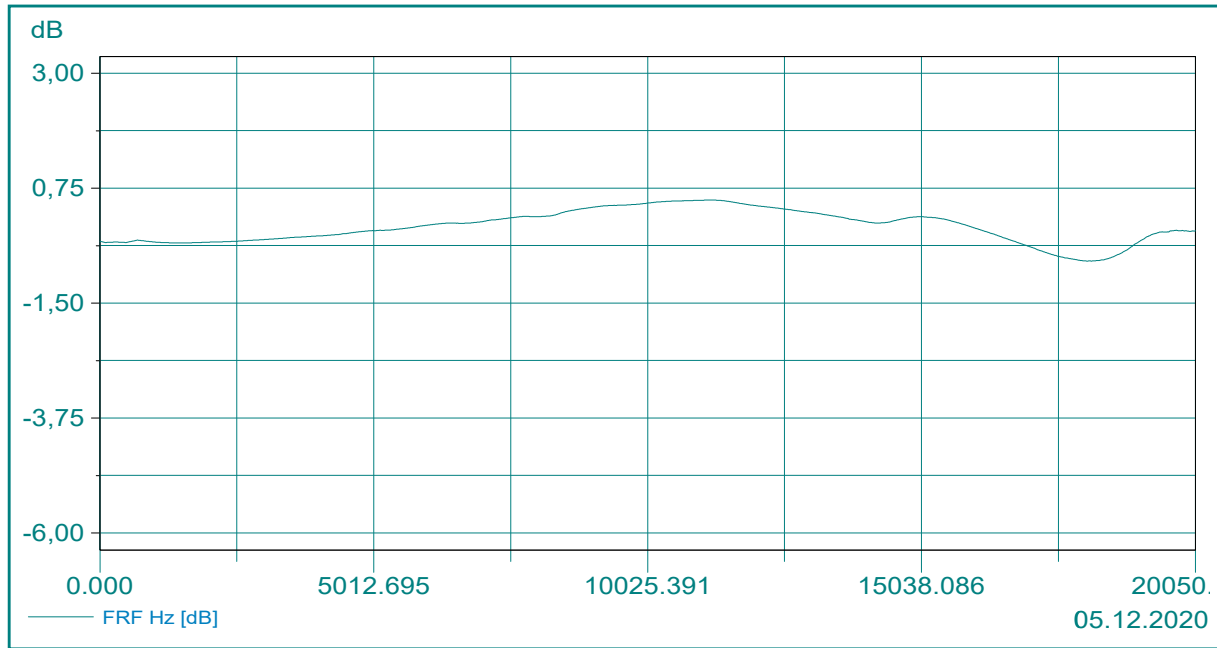
# Certificate of Factory Calibration

1/4" IEPE Free Field Measurement Microphone

Type : RG50

Serial No. : 1069

Sensitivity : 50.3 mV/Pa (@ 1 kHz | 20°C | 998 hPa)



BSWA Full Frequency Coupler CA916 # 540002  
Reference Microphone # MPA231  
Svantek SV30A # 14126  
Plug.n.DAQ Lite # 353  
Software : DASyLab Pro 2020

Calibrated by

Rogá

