

# MI-21

## 1/4" IEPE Microphone



The MI21 measurement microphone has been designed with splash water protection so that it can be used for measurement campaigns in wet or humid weather.

A hydrophobic membrane at the sound inlet prevents water from damaging the electret capsule.

The microphones with splash water protection, also MI17sw and RG-50sw, have proven themselves, among others, with brake manufacturers, who mount the measurement microphone in the wheel housing in order to record disturbing brake noises.

However, measurement runs in winter with polluted salt water, put the sound inlet, or damage the microphone capsule in the course of time.

In this case, we offer a repair of the microphone at half the purchase price.



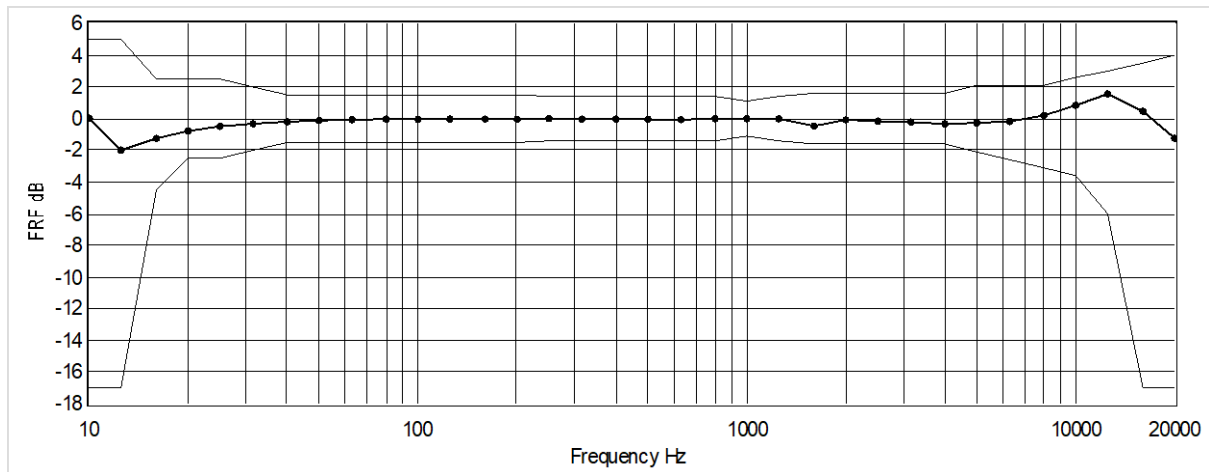
### TECHNICAL DATA (TYPE 1):

<b>Frequency response (typical)</b>	5 Hz – 4 kHz: $\pm 0.5$ dB 4 kHz – 20 kHz: $\pm 1.5$ dB
<b>Temperature range</b>	-10 – +50 °C
<b>Sensitivity <math>\pm 1</math> dB</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>	83 mm
<b>Tube – diameter</b>	6.8 mm
<b>Connector</b>	BNC (fem.) or TNC
<b>Weight</b>	19 gr.

# Certificate of Factory Calibration

## 1/4" IEPE Free Field Measurement Microphone

Type : MI21  
 Serial No. : 0218  
 Sensitivity : 51.6 mV/Pa (@ 1 kHz | 24 °C | 1015 hPa)



BSWA full frequency coupler	: CA916	S/N: 540002
Reference Microphone BSWA	: MP201	S/N: 520324
Svantek SV30A	: SV30A	S/N: 14126
ROGA Instruments	: Plug.n.DAQ Lite	S/N: 353
Software BSWA	: VA-Audio	Ver: 7.0
Measurement uncertainty	: 0.20 dB	

Calibrated by, 6/28/2022

*R. Gawlik*  
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