



# MI19-HL

## High SPL 1/4" IEPE Microphone



### MI19-HL 1/4" High SPL Microphone

Calibrated microphone MI19-HL is suitable for high sound pressure measurements in technical acoustics such as machine noise, sound measurement on the test bench, airbag bang, explosion analysis, explosion detection, shooting noise, gunshot sound and engine noise in aerospace industry.

The MI19 model has integrated electronics and is supplied with a sensitivity of 1 mV/Pa with a tolerance of  $\pm 0.5$  dB.

The power supply is provided by an IEPE constant current source with 4mA.

MI19 microphones are equipped with a BNC jack so that standard BNC cables can be used.

The TNC connector version is also available upon request.

### Specifications

Class 1 according to IEC 61672

Frequency response	20 Hz - 30 kHz
Microphone Type	Free field
Characteristic	Omnidirectional
Sensitivity	1 mV/Pa
Inherent noise	68 dB(A)
Dynamic range (Ref. 20 $\mu$ Pa)	68 dB(A) -164 dB
IEPE Supply	2 - 8 mA @ 18 Volt - 30 Volt
Connector	BNC (fem.)
Diameter	1/4" / 6.8 mm
Operating temperature	-10 - 80 °C
Overall length	83 mm
Weight	19 g

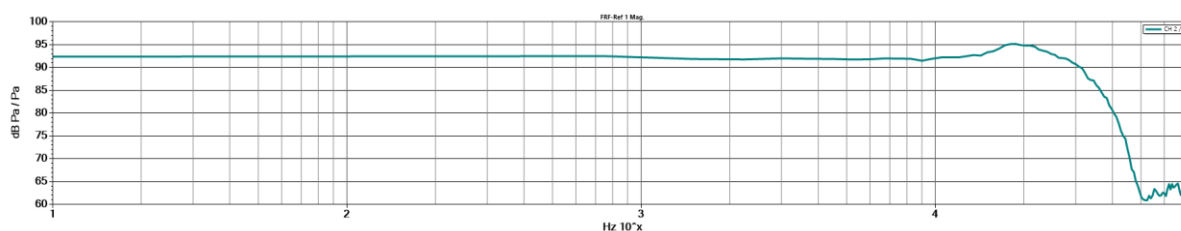
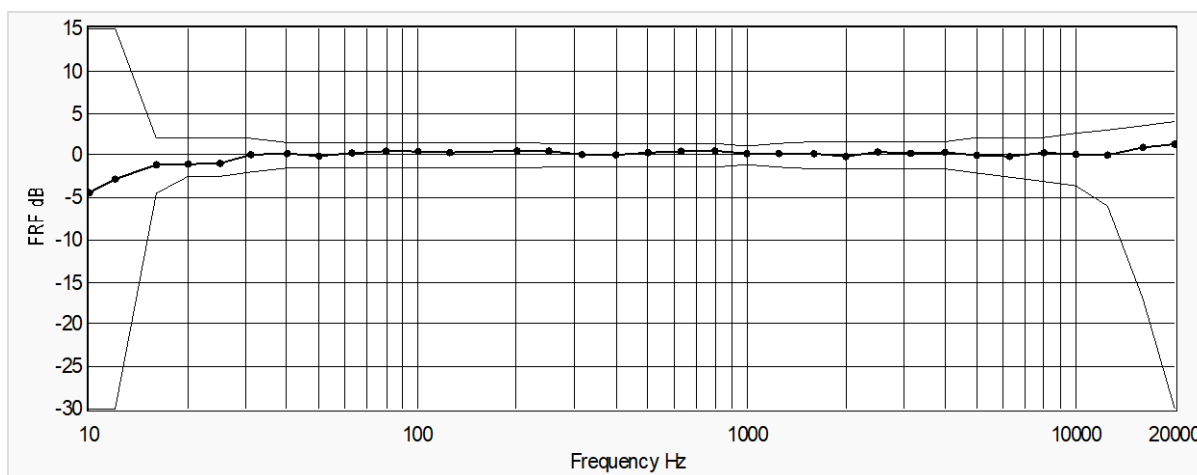
The compact and integrated combination of microphone capsule and preamplifier can be connected to measurement channels with an IEPE supply and calibrated with standard 1/4" sound calibrators.

# Certificate of Factory Calibration

## 1/4" IEPE Free Field Measurement Microphone

Class1 according to IEC 61672

Type : MI19-HL  
Serial No. : 1274  
Sensitivity : 0.84 mV/Pa | @ 1000 Hz | 23.6 °C | 98.4 kPa | 49 %RH



BSWA full frequency coupler  
Reference Microphone BSWA  
MTG Kalibrator  
ROGA Instruments  
Software BSWA  
Measurement uncertainty

: CA916  
: MP201  
: 4010  
: Plug.n.DAQ Lite  
: VA-Audio  
: 0.20 dB

S/N: 540002  
S/N: 520324  
S/N: 10072  
S/N: 353  
Ver: 7.0

Calibrated by, 21-Jun-25

Romuald Gawlik  
Founder and CEO

