

PRODUCT INFORMATION

1/4"-Electret Condenser Microphones MI17, MI18, MI19 for industrial measurements



Features

Frequency Range: 20 Hz to 20 kHz
Dynamic Range: 30 to 130 dB (SPL)
Frequency Response complies with DIN-IEC 651, Class 1 (Free-field)
Reasonable Price
Constant Current Supply (IEPE)

Description:

The 1/4"-condenser microphones MI17 to MI19 are free-field types with integrated electronics. They can be delivered with narrow tolerances ($\pm 5\%$) and with sensitivities between 10 and 100 mV/Pa.

For MI17 and MI18 special versions – e.g. for high sound pressure levels – are available. Power supply can be achieved by either a constant current source (standard) or an optional voltage source (5-30 V). Coaxial cables are used for connection. The microphones are generally equipped with BNC-sockets. Other connectors (TNC, SMB, LEMO, μ dot) are available as an option.

A special Version is the microphone MI19. It can be connected to standard microphone front ends with Lemo-connectors (Ser. 1B, 7pol)

Technical Data

valid from: 01.01.2011

Common features:

Frequency response 30 Hz - 4 kHz $\pm 0,5\text{dB}$
4 kHz - 20 kHz $\pm 1,5\text{dB}$

Temperature Range: $-10^{\circ} \dots 50^{\circ}\text{C}$

Individual features for standard types:

Type	MI17	MI18	MI19	
Sensitivity	50 $\pm 5\%$	50 $\pm 5\%$	50 $\pm 5\%$	mV/Pa
Inherent noise (lin: 20Hz-20kHz)	≈ 30	≈ 30	≈ 30	dB (re 20 μPa)
(„A“-weighted)	≈ 26	≈ 26	≈ 26	dB (re 20 μPa)
Maximum sound pressure level	≈ 130	≈ 130	≈ 130	dB (re 20 μPa)
Constant current supply	2-8	2-20	$\pm 14\text{V}/28\text{-}150\text{V}$	
Source resistance	50	50	50	Ω
Dimensions – Total length:	93	84	103	mm
Body diameter:	8	7	7	mm
Connector socket:	BNC	BNC	Lemo 1B	
Weight:	23	10	24	Grams

Lengths and weights are different with other types of connectors.

Special types are available upon request.

1. MI 17 Standard incl. Windscreen (WS10/30)

1.1. MI17sw Splash water proof incl. Windscreen (WS10/40)

2. MI 18 Standard incl. Windscreen (WS10/30)

2.1 MI18HL High level version incl. Windscreen (WS10/30) 10 mV/Pa ($\pm 20\%$), $L_{\text{max}} \geq 150 \text{ dB}_{\text{peak}}$

3. MI 19 incl. Preamplifier for $\pm 14\text{V}$ sym. or 28V asym. Supply 7-pole Lemo-connector

4. Accessories

4.1	Windscreen for ¼"-Microphones, 30 $^{\circ}$	WS10/30
4.2	Windscreen for ¼"-Microphones, 40 $^{\circ}$	WS10/40
4.2	Windscreen for ¼"-Microphones, 50 $^{\circ}$	WS10/50
4.3	Windscreen for ½"-Microphones, 65 $^{\circ}$	WS11
4.4	Windscreen für ½"-Microphones, 90 $^{\circ}$	WS13
4.6	Microphone Tripod with swivel arm	ST210/9
4.7	Microphone Holder (inclinable) with ¾"-thread	MH11
4.8	IEPE Adapter für P48 (XLR/BNC)	IP48
4.9	Calibration Adapter for ¼"-Microphones	CA11
4.10	Sound Calibrator (type 2 for ½" and ¼"-Microphones)	7942A
4.11	IEPE Power Supply (battery driven)	PS-01

Technical data are subject to change.