

# MEB 102 (-L) MEB 104 (-L) Install Boundary Layer Microphone

## FEATURES

- Unobtrusive, timeless design
- Optimized for speech
- Made in Germany

Compact and unobtrusively designed, the boundary layer microphones **MEB 102** (omnidirectional) and **MEB 104** (cardioid) fits any style of interior and can be easily installed into surfaces such as tables or ceiling tiles. Each of them features a proven Sennheiser microphone capsule for the best speech intelligibility, and is protected by a rugged housing. Its -L variant features a bi-color LED ring for status indication.



MEB 102

MEB 104

## ARCHITECT'S SPECIFICATIONS

The microphone shall be a pre-polarized condenser boundary layer microphone designed for fixed installation in conference applications. The omni-directional microphone capsule shall be optimized for speech intelligibility. The microphone capsule shall be protected by a rugged sound inlet basket. The frequency response shall be 40 Hz-20,000 Hz and sensitivity shall be 16 mV/Pa. Nominal impedance at 1 kHz shall be 200 Ω. Equivalent noise level shall be 21 dB(A) or 31 dB weighted as per CCIR 468-3. Dynamic range shall be 104 dB (A). Maximum SPL shall be 125 dB. The microphone shall provide an XLR-3 connector and an M20 thread.

The microphone shall operate on 48 V phantom power. Current consumption shall be 3 mA. Dimensions shall be 28.5 mm (1.12") in diameter and 83 mm (3.27") in total height. The installation height shall be 12 mm (0.57"). Weight shall be 58 grams (2.05 oz).

Continued on page 2

## TECHNICAL DATA

### MEB 102

Transducer principle .....	pre-polarized condenser microphone
Acoustic principle.....	boundary layer microphone
Pick-up pattern.....	omni-directional
Frequency response .....	40 Hz – 20 kHz
Nominal impedance at 1 kHz .....	200 Ohm
Sensitivity .....	16 mV/Pa
Maximum sound pressure level.....	125 dB
Equivalent noise level .....	21 dB (A)
Equivalent noise level weighted as per CCIR 468-3 .....	31 dB (CCIR)
Dynamic range.....	104 dB (A)
Phantom power.....	P 48
Current consumption .....	3 mA
Connector.....	XLR-3
Pin assignment XLR-3M out.....	1 = gnd 2 = + 3 = -
Weight .....	58 g
Height .....	83 mm (12 mm above surface)
Diameter .....	28.5 mm
Thread .....	M 20
Operating temperature .....	0 ° ... +40 °C

Continued on page 2

# MEB 102 (-L) / MEB 104 (-L) Install Boundary Layer Microphone

## ARCHITECT'S SPECIFICATIONS

Operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The microphone shall be the Sennheiser MEB 102.

The Sennheiser MEB 102 microphone shall also be available as a variant (-L) with an XLR-5 connector and a bi-color LED ring for status indication. The current consumption of the -L version shall be 6 mA. The TTL voltage for LED activation shall be high level > 2.4 and low level < 0.4 V.

The microphone shall be a pre-polarized condenser boundary layer microphone designed for fixed installation in conference applications. The cardioid microphone capsule shall be optimized for speech intelligibility. The microphone capsule shall be protected by a rugged sound inlet basket. The frequency response shall be 40 Hz–20,000 Hz and sensitivity shall be 14 mV/Pa. Nominal impedance at 1 kHz shall be 200 Ω. Equivalent noise level shall be 28 dB(A) or 38 dB weighted as per CCIR 468-3. Dynamic range shall be 97 dB (A). Maximum SPL shall be 125 dB. The microphone shall provide an XLR-3 connector and an M20 thread.

The microphone shall operate on 48 V phantom power. Current consumption shall be 3 mA. Dimensions shall be 28.5 mm (1.12") in diameter and 90 mm (3.54") in total height. The installation height shall be 19 mm (0.75"). Weight shall be 60 grams (2.15 oz). Operating temperature shall range from 0 °C to +40 °C (+32 °F to +104 °F). The microphone shall be the Sennheiser MEB 104.

The Sennheiser MEB 104 microphone shall also be available as a variant (-L) with an XLR-5 connector and a bi-color LED ring for status indication. The current consumption of the -L version shall be 6 mA. The TTL voltage for LED activation shall be high level > 2.4 and low level < 0.4 V.

## TECHNICAL DATA

### MEB 102-L

Current consumption .....	6 mA
Connector .....	XLR-5
Pin assignment XLR-5M out .....	1 = gnd
	2 = + (Mic +)
	3 = - (Mic -)
	4 = LED green (trigger signal)
	5 = LED red (default)
LED light ring color .....	red / green
TTL levels for LED activation .....	high > 2.4 V
	low < 0.4 V

### MEB 104

Transducer principle .....	pre-polarized condenser microphone
Acoustic principle .....	boundary layer microphone
Pick-up pattern .....	cardioid
Frequency response .....	40 Hz – 20 kHz
Nominal impedance at 1 kHz .....	200 Ohm
Sensitivity .....	14 mV/Pa
Maximum sound pressure level .....	125 dB
Equivalent noise level .....	28 dB (A)
Equivalent noise level weighted as per	
CCIR 468-3 .....	38 dB (CCIR)
Dynamic range .....	97 dB (A)
Phantom power .....	P 48
Current consumption .....	3 mA
Connector .....	XLR-3
Pin assignment XLR-3M out .....	1 = gnd
	2 = +
	3 = -
Weight .....	60 g
Height .....	90 mm (19 mm above surface)
Diameter .....	28.5 mm
Thread .....	M 20
Operating temperature .....	0 ° ... +40 °C

### MEB 104-L

Current consumption .....	6 mA
Connector .....	XLR-5
Pin assignment XLR-5M out .....	1 = gnd
	2 = + (Mic +)
	3 = - (Mic -)
	4 = LED green (trigger signal)
	5 = LED red (default)

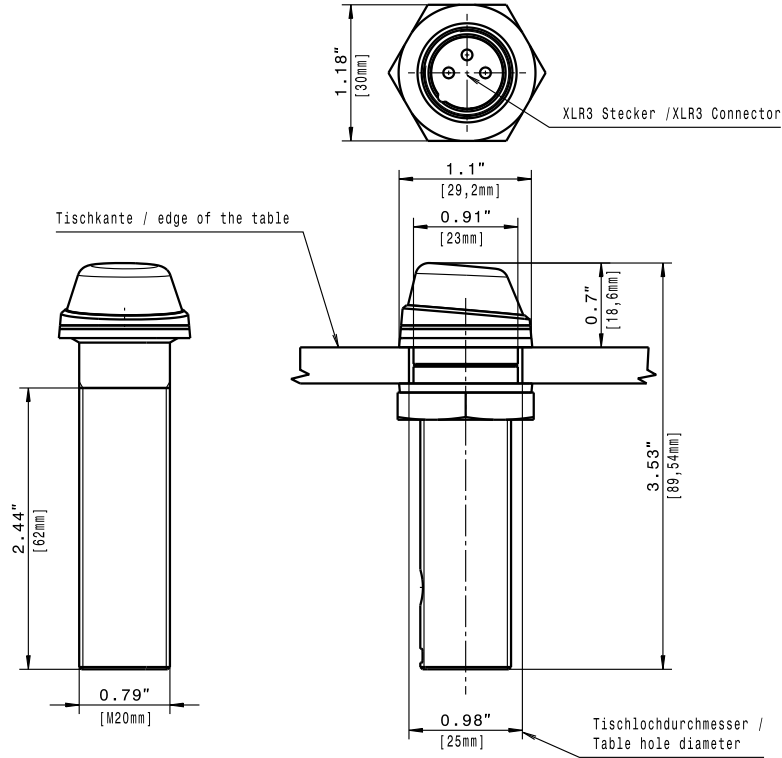
Continued on page 3



# MEB 102 (-L) / MEB 104 (-L) Install Boundary Layer Microphone

## DIMENSIONS

### MEB 104



## PRODUCT VARIANTS

MEB 102 B black	Cat. No. 505600
MEB 102 W white	Cat. No. 505601
MEB 102 G Nextel grey	Cat. No. 505602
MEB 102-L B black	Cat. No. 505603
MEB 102-L W white	Cat. No. 505604
MEB 102-L G Nextel grey	Cat. No. 505605
MEB 104 B black	Cat. No. 505606
MEB 104 W white	Cat. No. 505607
MEB 104 G Nextel grey	Cat. No. 505608
MEB 104-L B black	Cat. No. 505609
MEB 104-L W white	Cat. No. 505610
MEB 104-L G Nextel grey	Cat. No. 505611

## RECOMMENDED ACCESSORIES

MAS 1 B Microphone Switch	Cat. No. 505618
MAS 1 W Microphone Switch	Cat. No. 505619
MAS 1 G Microphone Switch	Cat. No. 505620
MAS 133 Inline Logic box	Cat. No. 505621

## Contact your local Service Partner:

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