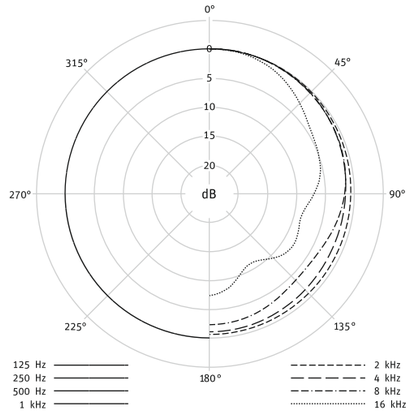
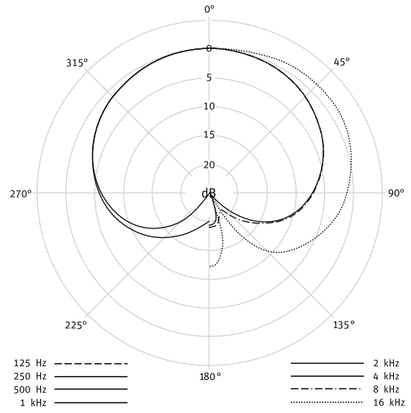
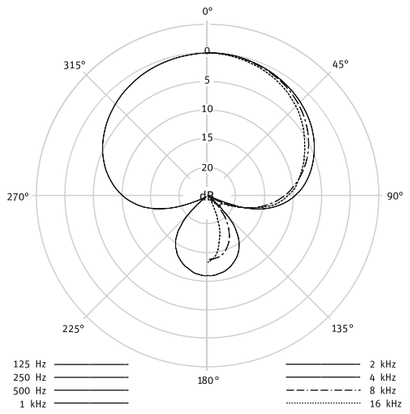
KK 13




KK 14




KK 15




| Specifications | MCM 113 (KK 13 with MCM 100) | MCM 114 (KK 14 with MCM 100) | MCM 115 (KK 15 with MCM 100) |
|---|---|---|---|
| Acoustic operating principle | Pressure transducer | Pressure gradient transducer | Pressure gradient transducer |
| Directional pattern | Omni | Cardioid | Supercardioid |
| Frequency range | 20 Hz - 20 kHz | 20 Hz - 20 kHz | 20 Hz - 20 kHz |
| Sensitivity at 1 kHz into 1 kΩ | 3.3 mV/Pa ≙ -49.5 dBV ± 2 dB | 3.6 mV/Pa ≙ -49 dBV ± 2 dB | 3 mV/Pa ≙ -50.5 dBv ± 2 dB |
| Rated output impedance | KK 13: 10 Ω \| MCM 100: 50 Ω | KK 14: 10 Ω \| MCM 100: 50 Ω | KK 15: 10 Ω \| MCM 100: 50 Ω |
| Rated load impedance | 1000 Ω | 1000 Ω | 1000 Ω |
| Signal-to-noise ratio, CCIR[1] (rel. 94 dB SPL) | 62 dB | 60 dB | 60 dB |
| Signal-to-noise ratio, A-weighted[1] (rel. 94 dB SPL) | 74 dB | 71 dB | 70 dB |
| Equivalent noise level, CCIR[1] | 32 dB | 34 dB | 34 dB |
| Equivalent noise level, A-weighted[1] | 20 dB-A | 23 dB-A | 24 dB-A |
| Maximum SPL[2] for THD < 0.5 % | | | |
| with MCM 100, $U_{supply}$ = 10 V, $R_{feed}$ = 20 kΩ | 153 dB SPL | 153 dB SPL | 154 dB SPL |
| with $U_{supply}$ = 5 V, $R_{feed}$ = 8.25 kΩ | 147 dB SPL | 147 dB SPL | 148 dB SPL |
| Dynamic range of the amplifier, A-weighted[2] for THD < 0.5 % | 133 dB | 130 dB | 130 dB |
| Power supply | KK 13: ≤ 10 V, with $R_{feed}$ = 20 kΩ \| MCM 100: 48 V ± 4 V (P48, IEC 61938) | KK 14: ≤ 10 V, with $R_{feed}$ = 20 kΩ \| MCM 100: 48 V ± 4 V (P48, IEC 61938) | KK 15: ≤ 10 V, with $R_{feed}$ = 20 kΩ \| MCM 100: 48 V ± 4 V (P48, IEC 61938) |
| Current consumption | KK13: 0.22 mA \| MCM 100: 3.5 mA | KK 14: 0.22 mA \| MCM 100: 3.5 mA | KK 15: 0.22 mA \| MCM 100: 3.5 mA |
| Required connector | XLR 3F | XLR 3F | XLR 3F |
| Weight | KK13: 2.8 \| MCM 100: 39,2 g | KK 14: 2.3 g \| MCM 100: 39,2 g | KK 15: 2.74 g \| MCM 100: 39,2 g |
| Dimensions (Ø x L) | KK13: Ø 12 mm x 13.5 mm \| MCM 100: Ø 22 mm x 77 mm | KK 14: Ø 12 mm x 12 mm MCM 100: Ø 22 mm x 77 mm | KK 15: Ø 12 mm x 13.5 mm MCM 100: Ø 22 mm x 77 mm |
| Operating temperature range | 0 °C - +40 °C (32 °F - 104 °F) | 0 °C - +40 °C (32 °F - 104 °F) | 0 °C - +40 °C (32 °F - 104 °F) |
| Storage temperature range | –20 °C - +70 °C (–4 °F - 158 °F) | –20 °C - +70 °C (–4 °F - 158 °F) | –20 °C - +70 °C (–4 °F - 158 °F) |
| Operating humidity range | 0 % - 90 % | 0 % - 90 % | 0 % - 90 % |
| Storage humidity range | 0 % - 95 % | 0 % - 95 % | 0 % - 95 % |

[1] according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS
[2] THD of microphone amplifier at an input voltage equivalent to the capsule output at the specified SPL

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# Miniature Clip Microphone

**Quick Guide**
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Guide rapide
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Guía de inicio rápido
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Kısa Kılavuz
Краткая инструкция
Guia rápido
Beknopte handleiding
Krótka instrukcja obsługi
Snabbguide
Kort vejledning
快速指南
クイックガイド
퀵 가이드

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GEORG NEUMANN GMBH · LEIPZIGER STR. 112 · 10117 BERLIN · GERMANY
TEL +49 (0)30 / 41 77 24 -0 · FAX -50
HEADOFFICE@NEUMANN.COM · WWW.NEUMANN.COM

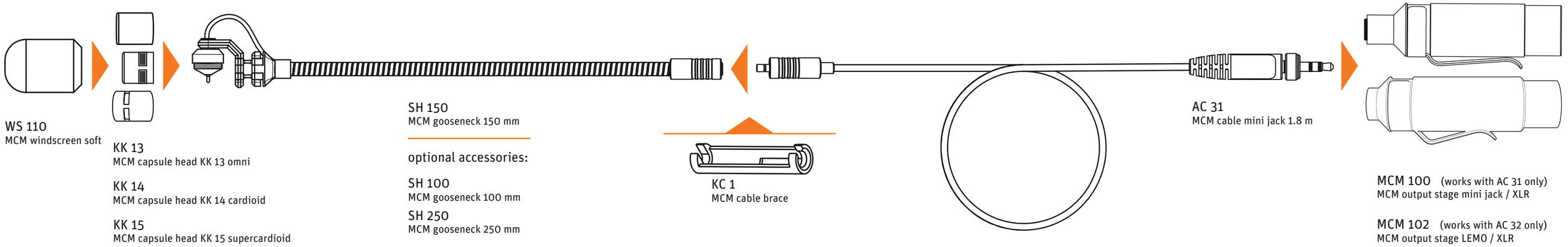
| | MCM 114 set **high strings** | MCM 114 set **cello** | MCM 114 set **bass** | MCM 114 set **woodwinds** | MCM 114 set **brass/sax/uni** | MCM 114 set **drums** | MCM 114 stereo set **piano** | MCM 114 set **guitar** |
|---|---|---|---|---|---|---|---|---|
| KK 14 MCM capsule head KK 14 cardioid | ● | ● | ● | ● | ● | ● | ● ● | ● |
| SH 100 MCM gooseneck 100 mm | ● | | | | | | | |
| SH 150 MCM gooseneck 150 mm | | ● | ● | ● | ● | ● | ● ● | ● |
| MCM 100 MCM output stage XLR | ● | ● | ● | ● | ● | ● | ● ● | ● |
| WS 110 MCM windscreen soft | ● | ● | ● | ● | ● | ● | ● ● | ● |
| AC 31 MCM cable mini jack 1.8 m | ● | ● | ● | ● | ● | ● | ● ● | ● |
| MC 1 MCM clip high strings | ● | | | | | | | |
| MC 2 MCM strings clip cello | | ● | | | | | | |
| MC 3 MCM strings clip double bass | | | ● | | | | | |
| MC 5 MCM universal strap clip | | | | ● | | | | |
| MC 6 MCM universal clamp clip | | | | | ● | | | |
| MC 7 MCM clip drum rims | | | | | | ● | | |
| MC 8 MCM magnetic piano clip | | | | | | | ● ● | |
| MC 9 MCM clip guitar | | | | | | | | ● |
| KC 1 MCM cable brace | ● | ● | ● | ● | ● | ● | ● ● | ● |
| Softcase | ● | ● | ● | ● | ● | ● | ● ● | ● |

Non-Set articles:
(only available individually)

| | | | | | |
|---|---|---|---|---|---|
| **KK 13** | MCM capsule head KK 13 omni | **AC 32** | MCM cable LEMO 3 pin 0.6 m, 1.8 m, 3.0 m | **MC 4** | MCM rib clip double bass |
| **KK 15** | MCM capsule head KK 15 supercardioid | **AC 33** | MCM cable MicroDot 0.6 m, 1.8 m, 3.0 m | **SH 250** | MCM gooseneck 250 mm |
| **AC 31** | MCM cable mini jack 0.6 m, 3.0 m | **AC 34** | MCM cable mini XLR 4 pin 0.6 m, 1.8 m, 3.0 m | **MCM 102** | Output stage XLR 3 pin |

| Specifications | SH 100 | SH 150 | SH 250 |
|---|---|---|---|
| Overall length | 144 mm | 194 mm | 294 mm |
| Weight | 16 g | 20 g | 30 g |

| Clips | MC 1 | MC 2 | MC 3 | MC 4 | MC 5 | MC 6 | MC 7 | MC 8 | MC 9 |
|---|---|---|---|---|---|---|---|---|---|
| Suitable for | violin, viola, mandolin, | cello | double bass | double bass | oboe, clarinet, recorder, bassoon, flute, harp | trumpet, trombone, saxophone, french horn, percussion, stands | tom, snare, stand tom | piano, grand piano | acoustic guitar, ukulele, dobro, acoustic bass, cello |
| Clip aperture (with reducer) | 32 - 50 mm | - | - | 202 - 246 mm (169 - 213 mm) | 10 - 80 mm | 0 - 20 mm | - | - | 85 - 132 mm (52 - 99 mm) |
| Diameter of strings | - | 0.6 - 2.3 mm | 1 - 2.6 mm | - | - | - | - | - | - |
| Weight | 16 g | 12 g | 20 g | 38 g | 20 g | 20 g | 10 g | 20 g | 25 g |



WS 110
MCM windscreen soft

KK 13
MCM capsule head KK 13 omni

KK 14
MCM capsule head KK 14 cardioid

KK 15
MCM capsule head KK 15 supercardioid

SH 150
MCM gooseneck 150 mm

optional accessories:

SH 100
MCM gooseneck 100 mm

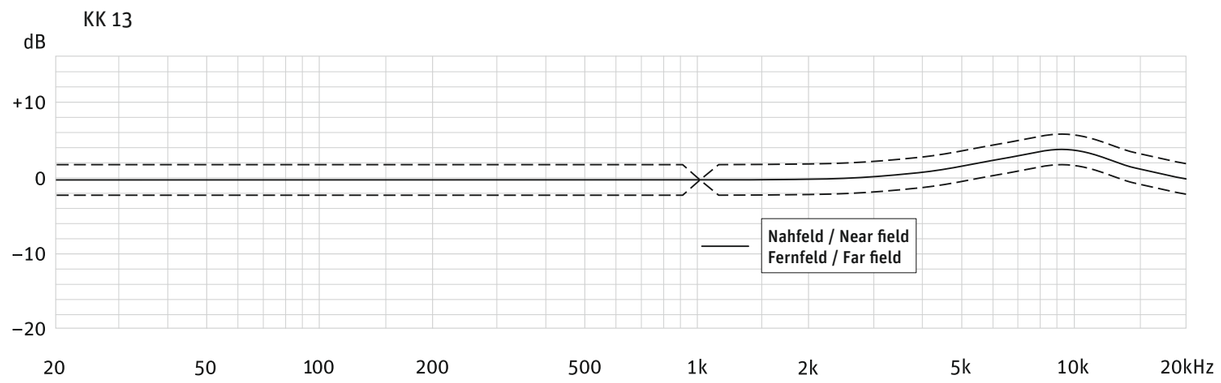
SH 250
MCM gooseneck 250 mm

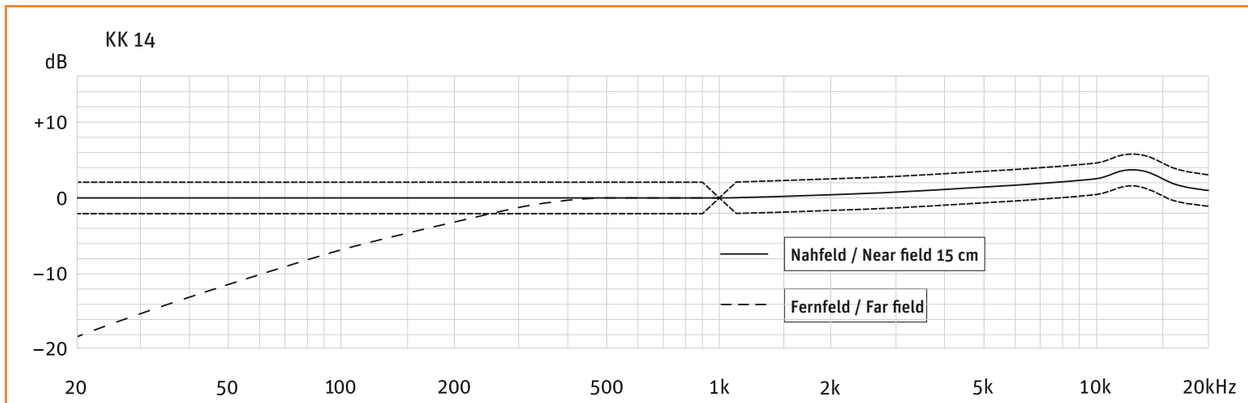
KC 1
MCM cable brace

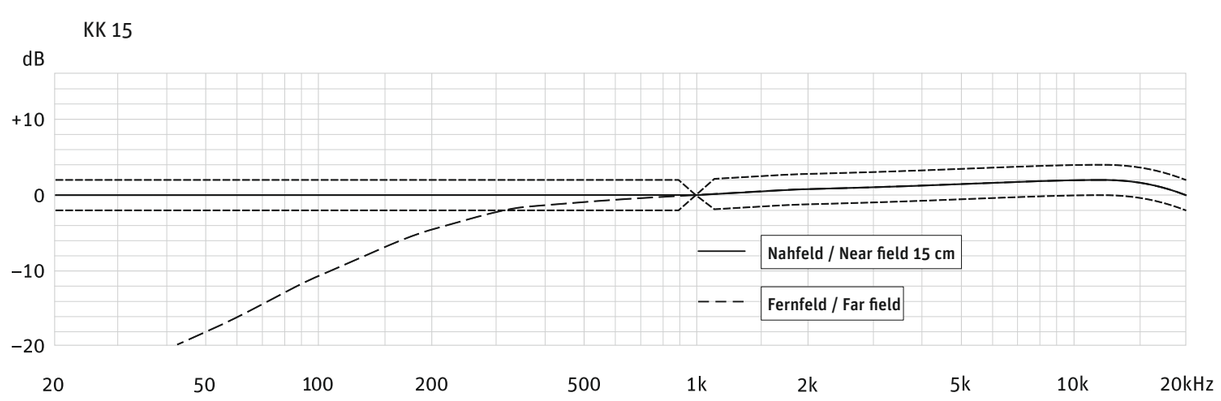
AC 31
MCM cable mini jack 1.8 m

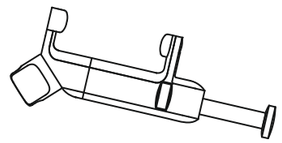
MCM 100 (works with AC 31 only)
MCM output stage mini jack / XLR

MCM 102 (works with AC 32 only)
MCM output stage LEMO / XLR

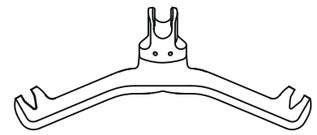


MC 1
MCM clip high strings



MC 2
MCM strings clip cello

optional accessories:

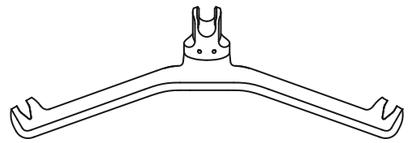
AC 31
MCM mini jack 0.6 m, 3.0 m

AC 32
MCM cable LEMO 3 pin
0.6 m, 1.8 m, 3.0 m

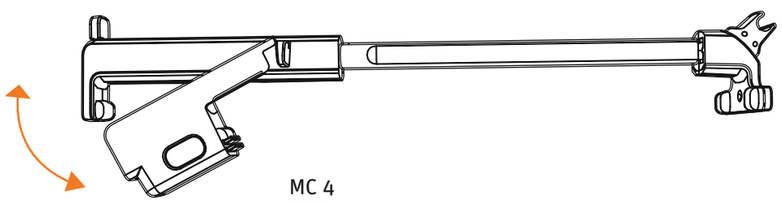
AC 33
MCM cable MicroDot
0.6 m, 1.8 m, 3.0 m

AC 34
MCM cable mini XLR 4 pin
0.6 m, 1.8 m, 3.0 m

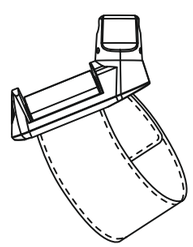
bodypack transmitter



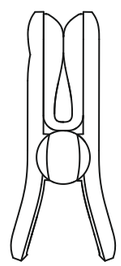
MC 3
MCM strings clip double bass



MC 4
MCM rib clip double bass



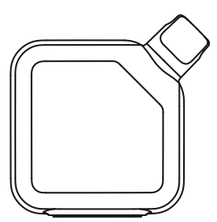
MC 5
MCM universal strap clip



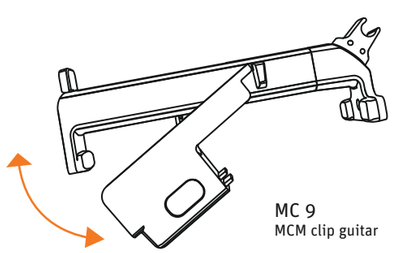
MC 6
MCM universal clamp clip



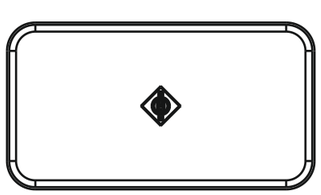
MC 7
MCM clip drum rims



MC 8
MCM magnetic piano clip



MC 9
MCM clip guitar



Softcase