

Classis RM 30 | RM 31

Revoluto Microphone



Classis RM 30



Classis RM 31 Q with
Orbis MU 21 delegate
microphone unit



Classis RM 31 Q



FEATURES

- Revoluto technology with vertical microphone array
- Corridor characteristic
- High gain before feedback
- Modern metal housing
- Three versions:
 - Classis RM 30 with 3-pin male XLR connector and filter
 - Classis RM 31 S with 3-pin male XLR connector, filter, LED ring, programmable switch (not yet available)
 - Classis RM 31 Q with 5-pin male XLR connector, LED ring

OPTIONAL ACCESSORIES

- GMB 33 S Microphone base with button, 3-pin female XLR connector, for Classis RM 30 and RM 31 S only . . . Order # 725.242
- GMS 32 Shock-mounted holder for table installations, for Classis RM 30 and RM 31 S, 3-pin female XLR connector, black. Order # 729.582
- GMS 52 Shock-mounted holder for table installations, for Classis RM 31 Q, 5-pin female XLR connector, black. Order # 729.434
- ZSH 20 Shock-mounted holder for installations. Order # 454.559

APPLICATIONS

The Classis RM 30 or Classis RM 31 is a new desktop microphone for round table discussions, podiums, tele/video conferencing, announcements and lecterns. The Revoluto technology with five integrated microphone capsules provides a so-called corridor characteristic which ensures a wide range of good voice quality. Within this range up to two speakers can move freely, i.e. they can stand up or sit down, move their head and move towards or away from the microphone. The microphone is available in three versions: the Classis RM 30 and Classis RM 31 S can be installed into tabletops when using the shock-mounted holders for installations. The Classis RM 31 Q is used with the Quinta and Orbis microphone units. The LED ring of the Classis RM 31 S and Classis RM 31 Q illuminates red to indicate the ready-to-speak status of the microphone.

VERSIONS

- Classis RM 30 3-pin male XLR connector, filter Order # 729.388
- Classis RM 31 S 3-pin male XLR connector, filter, LED ring, programmable switch Order # 729.396
- Classis RM 31 Q 5-pin male XLR connector, LED ring Order # 729.302

Classis RM 30 | RM 31

TECHNICAL SPECIFICATIONS

Microphone	. . . . . Revolutio microphone array, patented	
Transducer type	. . . . . Electret condenser	
Operating principle	. . . . . Pressure gradient	
Polar pattern	. . . . . Corridor	
Horizontal	. . . . . Cardioid	
Vertical	. . . . . Lobar	
Optimal distance	
to the speaker	. . . . . 40 - 80 cm [15.75" - 31.5"]	
Frequency response	
Classis RM 31 Q	. . . . . 110 - 20,000 Hz	
Classis RM 30	. . . . . 90 - 20,000 Hz	
Sensitivity	. . . . . 28.7 mV/Pa = -30.9dBV ±2dB	
Nominal impedance	
Classis RM 31 Q	. . . . . < 20 Ω	
Classis RM 30	. . . . . < 200 Ω	
Load impedance	
Classis RM 31 Q	. . . . . ≥ 100 Ω	
Classis RM 30	. . . . . ≥ 1 kΩ	
Signal-to-noise ratio /	
noise voltage	
Classis RM 31 Q	. . . . . 68 dB [A] / 11.5 μV [A]	
Classis RM 30	. . . . . 67.2 dB [A] / 12.5 μV [A]	
Max. SPL	. . . . . 107 dB [SPL @ 1% THD]	
Equivalent SPL	. . . . . 26.8 dB [A]	
Connector	
Classis RM 31 Q	. . . . . unbal., 5-pin XLR male	
Classis RM 30	. . . . . unbal., 3-pin XLR male	
Supply voltage /	
supply current	
Classis RM 31 Q	. . . . . 5 V / 8.5 mA (with LED)	
Classis RM 30	. . . . . Phantom power	
	. . . . . P48 (+48 VDC, 6.8 kΩ, < 4.5 mA)	
	. . . . . P24 (+24 VDC, 1.2 kΩ, < 4.5 mA)	
	. . . . . P12 (+12 VDC, 680 Ω, < 4.5 mA)	
Temperature range	. . . . . -10 °C bis +40 °C [14 °F to 104 °F]	
Dimensions:	RM 30	RM 31 Q
Length (mm)	. . . . . 261	219
(inch)	. . . . . [10.28"]	[8.62"]
Capsule ø (mm)	. . . . . 25	25
(inch)	. . . . . [0.98"]	[0.98"]
Weight (g)	. . . . . 153	107
(pounds)	. . . . . [0.235]	[0.377]

ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The microphone array microphone with a corridor characteristic shall be used as a high-quality conference, paging and PA microphone. The microphone shall be connected to the Quinta or Orbis microphone unit. The LED ring integrated in the microphone shall indicate the ready-to-speak status. The vertical lobar and a horizontal cardioid microphone characteristic shall provide a maximum freedom of movement without acoustic losses of the recording quality. The filter in the microphone grille shall eliminate wind and pop noise. The RFI shield technology shall eliminate interferences of other wireless communication devices. The electret condenser microphone shall provide an unobtrusive and modern full metal housing for discreet positioning. The housing shall be coated with a non-glare mat black textile and paint. The gooseneck diameter shall be 25 mm [0.98"]. The total length shall be 230 mm [9.05"] when connected to the microphone unit (measured from the table's edge). It shall be suitable for discussions, podiums, tele and video conferences, announcements and lecterns. The frequency response shall be 110 - 20,000 Hz. The open circuit voltage shall be 28.7 mV/Pa. The nominal impedance shall be <20 ohms. The microphone shall be provided with a 5-pin male XLR connector. The net weight shall be 0.107 kg [0.235 lbs].

Manufacturer: beyerdynamic
Type: Classis RM 31 Q

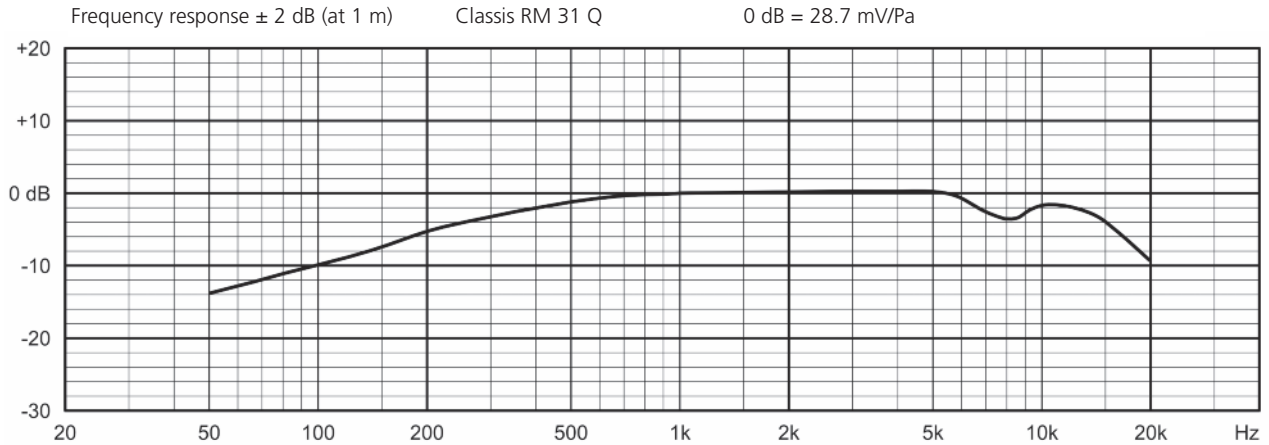
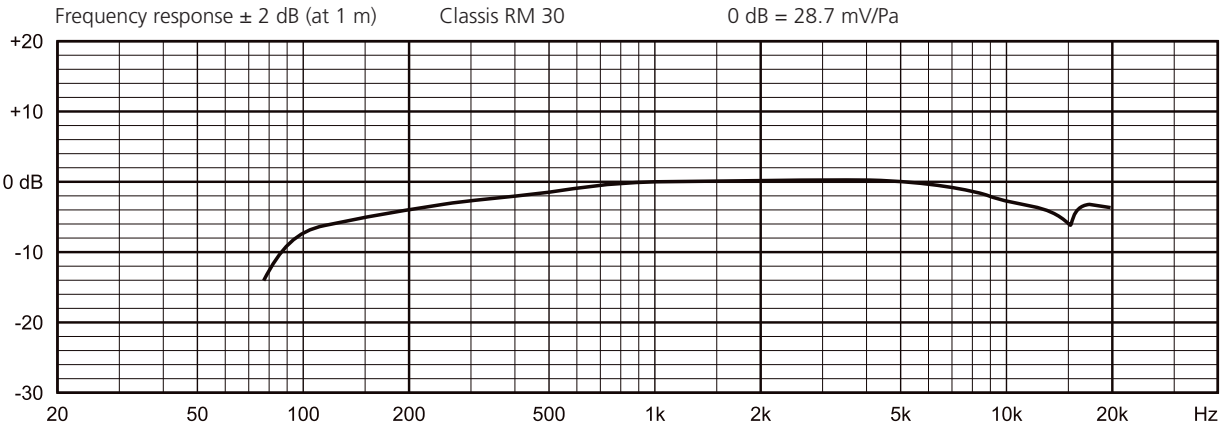
The microphone array microphone with a corridor characteristic shall be used as a high-quality conference, paging and PA microphone. The vertical lobar and a horizontal cardioid microphone characteristic shall provide a maximum freedom of movement without acoustic losses of the recording quality. The filter in the microphone grille shall eliminate wind and pop noise. The RFI shield technology shall eliminate interferences of other wireless communication devices. The electret condenser microphone shall provide an unobtrusive and modern full metal housing for discreet positioning. The housing shall be coated with a non-glare mat black textile and paint. The gooseneck diameter shall be 25 mm [0.98"]. The total length shall be 261 mm [10.28"]. The phantom power shall be between 8 and 52 V (P12, P24, P48). A pre-amplifier shall be integrated in the base and provided with a balanced signal output. It shall be suitable for discussions, podiums, tele and video conferences, announcements and lecterns. The frequency response shall be 90 - 20,000 Hz. The open circuit voltage shall be 28.7 mV/Pa. The nominal impedance shall be 200 ohms. The microphone shall be provided with a 3-pin male XLR connector. The net weight shall be 0.153 kg [0.337 lbs].

Manufacturer: beyerdynamic
Type: Classis RM 30

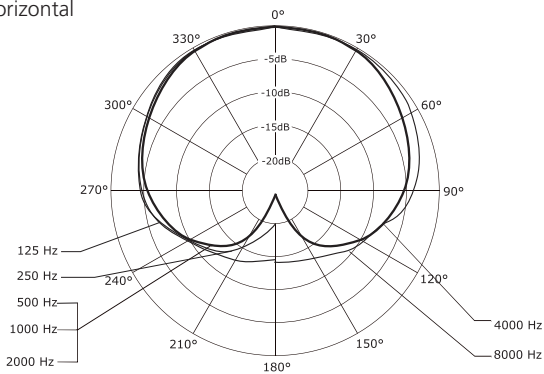
Classis RM 30 | RM 31

FREQUENCY RESPONSE & POLAR PATTERN

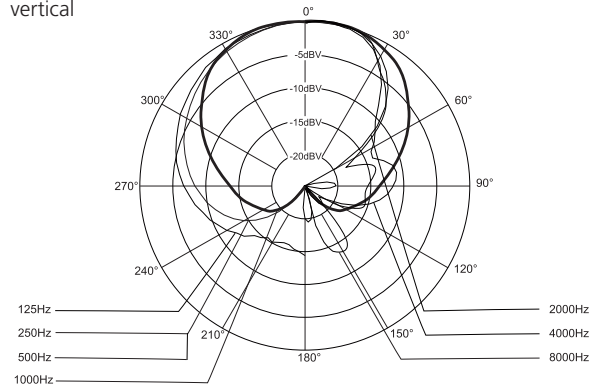
This polar pattern and frequency response curve (measuring tolerance ± 2 dB) correspond to a typical production sample for this microphone.



horizontal



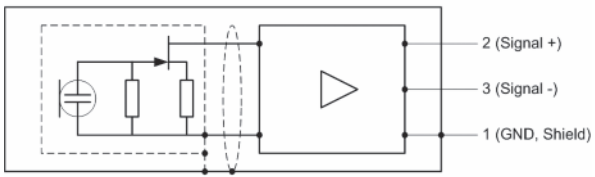
vertical



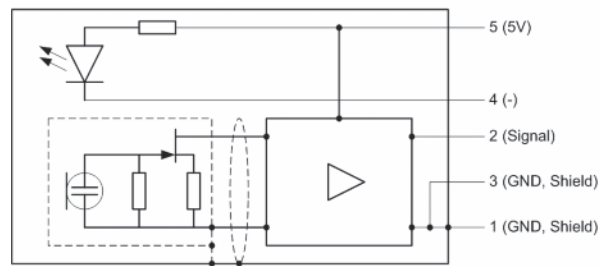
Classis RM 30 | RM 31

WIRING DIAGRAMS

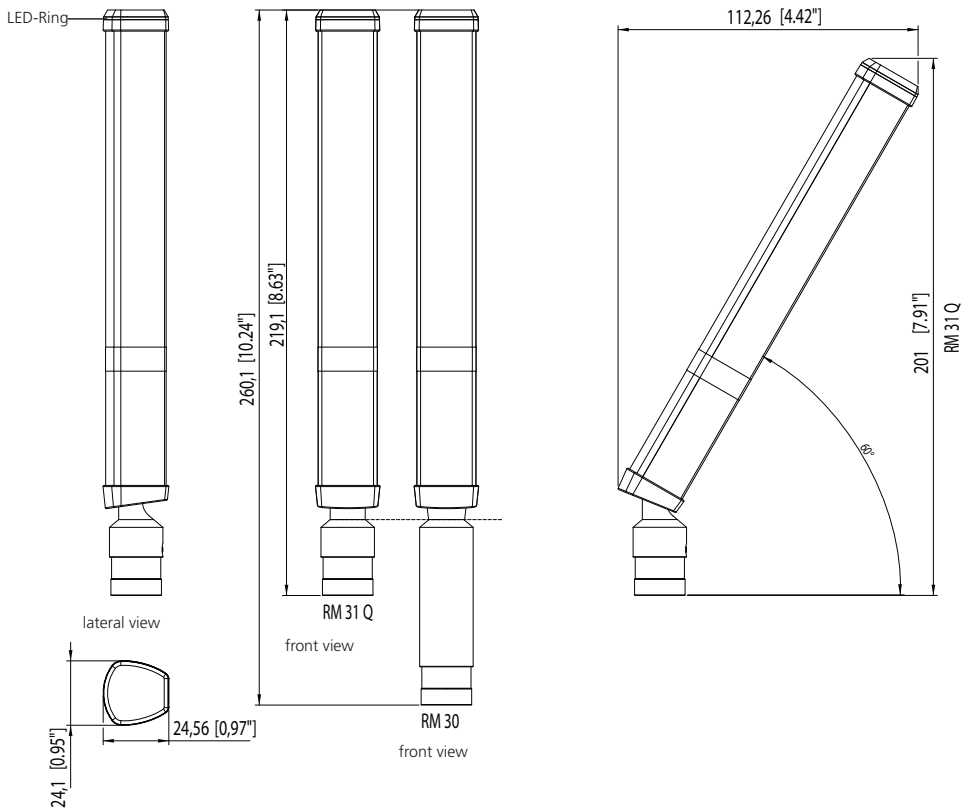
Classis RM 30 | RM 31 S



Classis RM 31 Q



DIMENSIONS



All dimensions in mm [inch]

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