Digital Flush Mount Delegate Microphone Unit

Order # 725.722









Optional CA OL loudspeaker module, not included



Table installation – supplied without gooseneck microphone

FEATURES

- High-quality flush mounting plate with metal housing and insert of optically hardened acrylic glass
- Round edges for flush mounting into tables
- Removable gooseneck microphone in different lengths, with Scudio® technology, 5-pin XLR connection with hidden lock
- Red LED on the gooseneck microphone displays ready-to-speak status
- Microphone button to turn the unit and microphone on or off
- Three-coloured backlit silicone microphone button:

White = microphone unit on

Green = microphone on

Red = request-to-speak entered, microphone still off

- Voice-controlled activation of the microphone possible
- Headphone output (3.5 mm stereo jack) and buttons to set volume or channel (Original or 1 foreign language channel)
- Two RJ45 sockets to connect to the control unit or to another microphone unit/system unit
- Phoenix® connector for external loudspeaker (the loudspeaker is automatically deactivated when the microphone is turned on)
- Configuration via Orbis CU control unit as semi-chairman microphone or press unit possible



DESCRIPTION

The Orbis MU 41 flush mount delegate microphone unit is equipped with one microphone button in the mounting plate, with which the participant can turn the unit and microphone on or off. The ready-to-speak status of the microphone is displayed by the red LED on the gooseneck microphone and the green backlit microphone button.

Depending on the configuration of the Orbis CU control unit one of the following operating modes is possible:

Normal: Each participant can turn on his/her microphone unit until the maximum number of open microphones is achieved.

FiFo: Each participant can turn on his/her microphone. If the selected number of open microphones (NOM) is exceeded, the microphone of the participant who turned on his/her microphone first is turned off when another participant turns on his/her microphone. **Voice-controlled Activation:** The microphone is turned on when the participant speaks into it, until the maximum number of open microphones is achieved.

The microphone unit's design follows the UN convention on the rights of persons with disabilities. It includes silicone buttons with tactile feedback and Braille marking. A headphone or induction loop for people with a hearing aid can be connected to the mini jack output. The volume of the headphone is adjusted with a separate control. Furthermore, by pressing the volume control the participant can toggle between two channels (e.g. original and 1 AUX-IN e.g. foreign language channel).

The microphone units are connected in a daisy chain to the Orbis CU control unit, i.e. the first microphone unit is connected to the control unit, the second microphone unit is connected to the first, the third microphone unit to the second and so on. For connection standard Cat5 cables are used. Thus, one cable ensures the audio transmission, power supply and control. The microphone units are very economical and use less than 1 watt in operation and at maximum volume.

Connection to a control unit without redundancy

A maximum of 50 microphones can be connected to one line of the Orbis CU control unit, i.e. a total of 100 microphone units can be operated with one Orbis CU control unit.

Connection to a control unit with redundancy

A maximum of 50 microphone units is connected in a ring to the Orbis CU control unit, i.e. the last microphone unit is connected to the previous microphone unit and the control unit. The redundancy provides maximum reliablility. Should a defect in a cable occur at one side of the microphone unit, the microphone unit will not fail to operate, because it will still be supplied via the cable from the other side. The cable in question or a defect microphone unit as well can be replaced during operation without causing any problems with the other microphone units.

An optional external loudspeaker can be connected to the Phoenix® connector.

The rounded edges allow the microphone unit to be flush mounted into a table.

TECHNICAL SPECIFICATIONS

General

Voltage supply

via control unit. Bus voltage (48 V DC)

Power consumption max. 1 W

Temperature range

(humidity < 90%) +10 °C to +40 °C

[+50 °F to +104 °F]

Storage temperature

(humidity < 90%) -20 °C to +55 °C

[-4 °F to +131 °F]

Connections

System connection.....2x RJ45 socket

(not for Ethernet)

Max. cable length

Line CU – MU 80 m [87.49 yd] with AWG 24

Max. cable length

Line MU – MU 80 m [87.49 yd] with AWG 24

Specification line cable. CAT5 S/UTP, cross-section min.

AWG 26

Specification line connector. . . . RJ45 acc. to EIA/TIA 568 B,

shielded

Loudspeaker output. Phoenix® connectors,

contact spacing 5.08 mm [20"]

Min. output impedance 8 Ω

Frequency response 20 - 15,000 Hz

Min. output impedance 16 Ω , short-circuit proof

Frequency response 20 - 15,000 Hz

Microphone

Connector 5-pin XLR male

1

Pin 1 = GND (ground) Pin 2 = Audio +

Pin 3 = Audio - Pin 4 = LED - Pin 4 = Pin 4 =

Pin 5 = LED Power (+5 V)

AB powering 2.2 V (2.2 kΩ)

Classis GM 313 Q - GM 316 Q Microphone

 Polar pattern
 Cardioid

 Frequency response
 50 - 19,000 Hz

 S/N ratio
 69 dB(A) / 6μV(A)

 Max. SPL
 107 dB (equalised)

GM 115 Q Microphone

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OPTIONAL ACCESSORIES

Gooseneck	micro	ohones
GOOGETIECK	micro	01101163

	but 600 mm [23.62"] Order # 724.351
Cables	
CA OC 1	System cable, CAT5 with
	RJ45 connector, 1 m [3.28 ft]. Order # 725.811
CA OC 2	same as above,
	but 2.5 m [8.20 ft] Order # 725.838
CA OC 5	same as above,
	but 5 m [16.4 ft] Order # 725.846
CA OC 10	same as above,
64.06.30	but 10 m [32.81 ft] Order # 725.854
CA OC 20	same as above,
CA OC 50	but 20 m [65.62 ft] Order # 725.862
CA UC 50	same as above, but 50 m [54.68 yd] Order # 725.889
	but 50 III [54.06 yu] Order # 725.869
IL 200	Induction loop,
	cable length 20 cm [7.87"],
	extension cable 77 cm [30.31"],
	mini stereo jack plug

Loudspeaker

CA OL Loudspeaker module for

Orbis MU 41/43 and Orbis SU 63. . Order # 725.765

(3.5 mm) Order # 725.161

ARCHITECT'S SPECIFICATIONS

The wired digital built-in microphone unit shall be used as a delegate version without microphone. The high-quality mounting plate shall be provided with an insert made of optically hardened acrylic glass. Rounded corners shall ensure a flush-mount table installation. The 5-pin XLR connector with hidden lock shall connect gooseneck microphones with integrated LED ring in different lengths.

The microphone unit shall be provided with a soft touch button with tactile feedback for turning the microphone on/off or entering a request-to-speak. The button shall be backlit in three colours and labelled with braille writing.

Depending on the configuration of the control unit the following operating modes shall be available: normal - each participant can turn the microphone unit on or off; FiFo - the first microphone is turned off, when the maximum number of open microphones is exceeded; voice activation: as soon as someone speaks into the microphone, it is automatically turned on.

Via the control unit the delegate microphone unit shall also be configured as a chairman microphone unit with a fixed audio channel (max. 8 chairman microphone units in a system) or as a press unit (microphone cannot be turned on).

The microphone unit shall have a headphone output (3.5 mm stereo jack) and soft touch buttons for setting the volume and channel (original and 1 foreign language channel), as well as a Phoenix connector for an external loudspeaker.

The microphone unit shall be connected via two RJ45 sockets to the control unit or another microphone/system unit.

Dimensions (LxWxH): 148 x 113 X 37 mm.

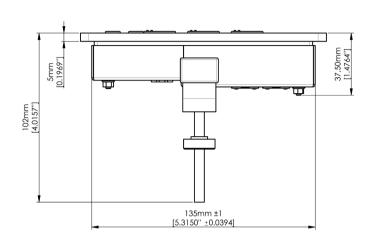
Manufacturer: beyerdynamic Type: Orbis MU 41

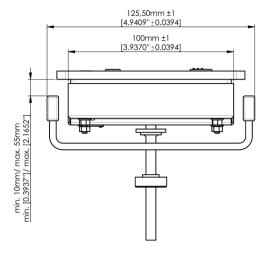
SUPPLIED ACCESSORIES

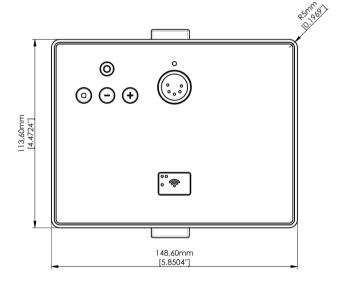
1 x Mounting bracket incl. adjusting screw



DIMENSIONS







All dimensions in mm and [inch]

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GM 31x Q GOOSENECK MICROPHONE



DESCRIPTION

The GM 31x gooseneck microphone is available as optional accessory to connect to the microphone unit.

Due to the cardioid polar pattern this microphone has a high gain before feedback and provides highest intelligibility of speech. The LED ring displays the ready-to-talk status of the microphone. Inside the microphone there is a filter to eliminate wind and pop noise.

The microphone features the innovative Scudio™ technology, making the microphones absolutely insensitive to wireless communication devices such as mobile phones.

The microphone is mounted on a 6 mm thick gooseneck and due to its mat black, non-glare surface almost invisible.

The following lengths are available:

GM 313 Q = 300 mm [11.81"]

GM 314 Q = 400 mm [15.75"]

GM 315 Q = 500 mm [19.69"]

GM 316 Q = 600 mm [23.62"]

TECHNICAL SPECIFICATIONS

Transducer type Condenser (electret)
Operating principle Pressure gradient
Frequency response 50 - 19,000 Hz
Polar pattern Cardioid
Open circuit voltage at 1 kHz 17 mV/Pa
Nominal impedance < 200 Om
Loead impedance ≥ 1 kOhm
Max. SPL
Signal-to-noise ratio/Noise voltage 69 dB [A] / 6.0 μV [A]
Equivalent SPL 25 dB[A]
Microphone connection 5-pin XLR (male)
Head diameter with pop shield approx. 26 mm [1.02"]
without pop shield approx. 13.6 mm [0.56"]
Gooseneck diameter 6 mm [0.24"]
Total length
GM 313 Q 270 mm [16.63"]
GM 314 Q
GM 315 Q 470 mm [18.5"]
GM 316 Q 570 mm [22.44"]

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GM 31x Q MICROPHONE

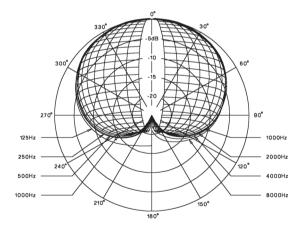








POLAR PATTERN



ARCHITECT'S SPECIFICATIONS

The cardioid condenser gooseneck microphone (electret) shall be connected to the Quinta desktop microphone unit. The LED ring integrated in the microphone head shall indicate the ready-to-speak status. The filter in the microphone basket shall suppress wind and pop noise. The Scudio® technology shall eliminate interferences from other wireless communication devices. The housing shall be coated with a non-glare mat black paint. The gooseneck diameter shall be 6 mm [0.24"]. The total length shall be 300 mm [11.81"] when connected to the microphone unit (measured from the table's edge). The delivery shall include a wind shield.

Manufacturer: beyerdynamic
Type: Classis GM 313 Q

The cardioid condenser gooseneck microphone (electret) shall be connected to the Quinta desktop microphone unit. The LED ring integrated in the microphone head shall indicate the ready-to-speak status. The filter in the microphone basket shall suppress wind and pop noise. The Scudio® technology shall eliminate interferences from other wireless communication devices. The housing shall be coated with a non-glare mat black paint. The microphone shall be provided of two goosenecks with a diameter of 6 mm [0.24"] and a rigid tube in between. The total length shall be 400 mm [15.75"] when connected to the microphone unit (measured from the table's edge). The delivery shall include a wind shield.

Manufacturer: beyerdynamic Type: Classis GM 314 Q The cardioid condenser gooseneck microphone (electret) shall be connected to the Quinta desktop microphone unit. The LED ring integrated in the microphone head shall indicate the ready-to-speak status. The filter in the microphone basket shall suppress wind and pop noise. The Scudio® technology shall eliminate interferences from other wireless communication devices. The housing shall be coated with a non-glare mat black paint. The microphone shall be provided of two goosenecks with a diameter of 6 mm [0.24"] and a rigid tube in between. The total length shall be 500 mm [19.69"] when connected to the microphone unit (measured from the table's edge). The delivery shall include a wind shield.

Manufacturer: beyerdynamic Type: Classis GM 315 Q

The cardioid condenser gooseneck microphone (electret) shall be connected to the Quinta desktop microphone unit. The LED ring integrated in the microphone head shall indicate the ready-to-speak status. The filter in the microphone basket shall suppress wind and pop noise. The Scudio® technology shall eliminate interferences from other wireless communication devices. The housing shall be coated with a non-glare mat black paint. The microphone shall be provided of two goosenecks with a diameter of 6 mm [0.24"] and a rigid tube in between. The total length shall be 600 mm [23.62"] when connected to the microphone unit (measured from the table's edge). The delivery shall include a wind shield.

Manufacturer: beyerdynamic
Type: Classis GM 316 Q



GM 115 Q GOOSENECK MICROPHONE



DESCRIPTION

The Classis GM 115 Q gooseneck microphone is used for direct connection to the Quinta or Orbis microphone units.

The microphone features a cardioid polar pattern with a high gain before feedback. The ready-to-speak status of the microphone is displayed by an LED ring. Inside the microphone grille there is a filter to eliminate wind or pop noise.

The microphone is mounted on a 6 mm thick gooseneck and due to its mat black, non-glare surface it discretely blends into the environment.

ARCHITECT'S SPECIFICATIONS

The condenser gooseneck microphone (electret) with cardioid polar pattern shall be used for direct connection to Quinta and Orbis microphone units. A filter inside the microphone grille shall eliminate wind or pop noise. It shall be protected against interference from wireless communication devices. The fully metal housing shall be matt black. The two flexible goosenecks (8 mm bottom, 6 mm top) shall have a rigid tube in between. The total length when mounted to a microphone unit shall be 500 mm (measured from the edge of the table). It shall be supplied with a wind shield.

Manufacturer: beyerdynamic Type: Classis GM 115 Q

TECHNICAL SPECIFICATIONS

Transducer type	
Close miking	. 40 - 13,000 Hz
Distant miking (distance 1 m)	. 200 - 13,000 Hz
Polar pattern	. Cardioid
Open circuit voltage at 1 kHz	17.8 mV/Pa = -35 dBV ±3 dB*
Nominal impedance	. 2.2 kΩ
Max. SPL	. 112 dB [SPL @ 1% THD]*
Signal-to-noise ratio	
Equivalent SPL	
Power supply	. 1.5 - 9 V DC
Microphone connection	•
Head diameter with pop shield	• •
without pop shield	
Gooseneck diameter	
Total length	
Weight	. approx. 110 g [3.8 oz]

^{*}depending on the connected electronics

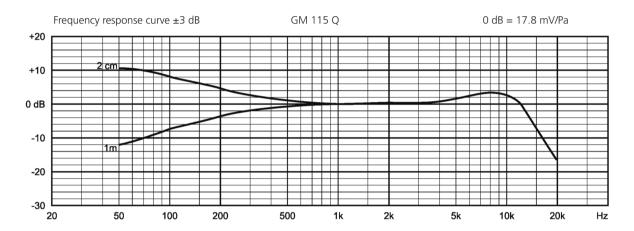


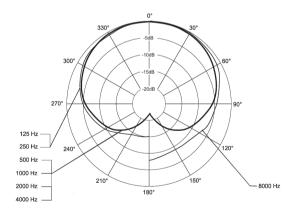
DIMENSIONS



FREQUENCY RESPONSE & POLAR PATTERN

This polar pattern and frequency response curve (measuring tolerance ±3 dB) correspond to a typical production sample for this microphone.





WIRING DIAGRAM

