



SHM 200 Series

Gooseneck Microphones



SHM 205 A

SHM 215 A

SHM 215 N

SHM 215 D

FEATURES

- High sensitivity
- High gain before feedback
- Non-glare surface
- Available with ON/OFF-switch
- Available in different lengths
- Phantom power 11 - 52 volts
- SHM 21X with illuminated LED ring

APPLICATIONS

The gooseneck microphones of the SHM 203 - SHM 215 series are high output, miniature condenser microphones with extraordinary sensitivity. Their cardioid polar pattern reduces undesirable off-axis sound while providing outstanding gain before feedback. The microphones are ideal for speech applications such as meetings, discussions, teleconferencing and many other applications where maximum speech intelligibility, high gain before feedback and unobtrusive design are required.

The microphone is mounted on an 8 mm thick gooseneck. The microphone can be powered with any phantom power source supplying 11 - 52 volts.

The microphones are available in many versions and different lengths. See back side for available versions.

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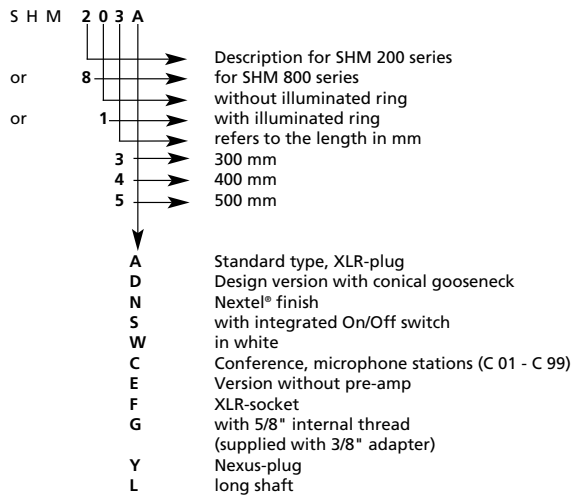
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TYPES

There are different types of the gooseneck microphones available.
The following example refers to all versions.



SHM 200 and SHM 800 Versions

SHM 203	SHM 204	SHM 205	SHM 213	SHM 214	SHM 215	SHM 803	SHM 804	SHM 805	SHM 813	SHM 814	SHM 815	
X	X	X	X	X	X	X		X		X	X	A — XLR-plug
		X										AD — XLR-plug/design version
												ADN — XLR-plug/design/Nextel
										X	X	AN — XLR-plug/Nextel
X	X	X				X		X				AS — XLR-plug/On/Off switch
						X						ASW — XLR-plug/On/Off switch/white
				X								C — Conference
				X	X							E — without pre-amp
X	X	X	X		X	X						F — XLR-socket
X												FS — XLR-socket/On/Off switch
X	X	X										G — 5/8" internal thread
				X	X					X	X	YN — Nexus-plug/Nextel
				X	X					X	X	YLN — Nexus-plug/long shaft/Nextel

VERSIONS

Model	Description	Order #
SHM 203 A	3-pin XLR plug, 300 mm.	464.422
SHM 203 AS	3-pin XLR plug, On/Off-switch, 300 mm.	464.430
SHM 203 F	3-pin XLR socket, 300 mm.	464.449
SHM 203 FS	3-pin XLR socket, On/Off-switch, 300 mm.	464.457
SHM 203 G	5/8"-internal thread, short casing, 300 mm.	464.465
SHM 204 A	3-pin XLR plug, 400 mm.	464.473
SHM 204 AS	3-pin XLR plug, On/Off-switch, 400 mm.	464.481
SHM 204 F	3-pin XLR socket, 400 mm.	464.503
SHM 204 G	5/8"-internal thread, short casing, 400 mm.	464.511
SHM 205 A	3-pin XLR plug, 500 mm.	464.538
SHM 205 AD	3-pin XLR plug, design version, 500 mm.	464.554
SHM 205 AS	3-pin XLR plug, On/Off-switch, 500 mm.	464.546
SHM 205 F	3-pin XLR socket, 500 mm.	464.562
SHM 205 G	5/8"-internal thread, short casing, 500 mm.	464.570
SHM 213 A	5-pin XLR plug, with illuminated ring, 300 mm.	464.589
SHM 213 F	5-pin XLR socket, with illuminated ring, 300 mm.	464.597
SHM 214 A	5-pin XLR plug, with illuminated ring, 400 mm.	464.600
SHM 214 E	5-pin XLR plug, with illuminated ring, 400 mm, without pre-amp.	464.635
SHM 214 YN	Nexus plug, with illuminated ring, 400 mm, Nextel® finish.	464.643
SHM 214 YLN	Nexus plug, with illuminated ring, 400 mm, Nextel® finish, long shaft.	464.651
SHM 215 A	5-pin XLR plug, with illuminated ring, 500 mm.	464.678
SHM 215 E	5-pin XLR plug, with illuminated ring, 500 mm, without pre-amp.	464.708
SHM 215 F	5-pin XLR socket, with illuminated ring, 500 mm.	464.716
SHM 215 YN	Nexus plug, with illuminated ring, 500 mm, Nextel® finish.	464.724
SHM 215 YLN	Nexus plug, with illuminated ring, 500 mm, Nextel® finish, long shaft.	464.732

SUPPLIED ACCESSORY

Model	Description	Order #
WS 20 WS	Wind screen for SHM 203 - 215, black.	439.975

OPTIONAL ACCESSORIES

Model	Description	Order #
ZSH 23 FT	Base plate with 3-pin XLR-socket and cable.	464.902
ZSH 25 FT	Base plate with 5-pin XLR-socket and cable.	464.910
ZSH 23 FG	5/8" adapter (with 3/8" reducer) with 3-pin XLR-socket and cable.	464.929
ZSH 25 FG	5/8" adapter (with 3/8" reducer) with 5-pin XLR-socket and cable.	464.937
ZSH 20	Elastic suspension for desktop installation.	454.559
ZSH 30	Base plate, 3/8", chrome, 74 mm ø.	111.430
ZSH 30.01	Base plate 3/8", black, 74 mm ø.	274.933
ZSH 40 (CM)	Base plate for footfall sound insulation with XLR-plug, for goosenecks with XLR-socket.	426.849
ZSH 40 (CM) WS	Base plate for footfall sound insulation with XLR-plug, white, for goosenecks with XLR-socket.	444.294
ZSH 40 (CM/5)	Base plate for footfall sound insulation with 5-pin XLR-plug.	438.847
ZSH 40 -3/8"	Base plate for footfall sound insulation 3/8", 78 mm ø, with 3/8"-thread.	272.272
ZSH 50 (CM)	Base plate with rubber layer, with XLR-plug, for goosenecks with XLR-socket.	431.451
ZSH 50 (CM/5)	Base plate with rubber layer, with 5-pin XLR-plug, for goosenecks with XLR-socket.	438.650
ZSH 51 (CM)	Stand adapter with XLR-plug, for goosenecks with XLR-socket.	431.478
ZSH 51 (CM) WS	Stand adapter with XLR-plug, white, for goosenecks with XLR-socket.	444.286
ZSH 51 (CM/5)	Stand adapter with 5-pin XLR-plug, for goosenecks with XLR-socket.	438.820

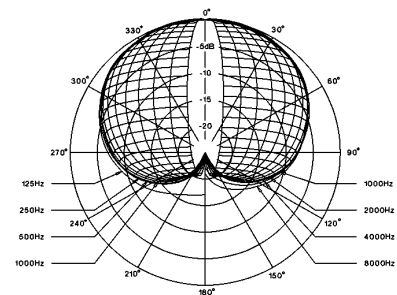
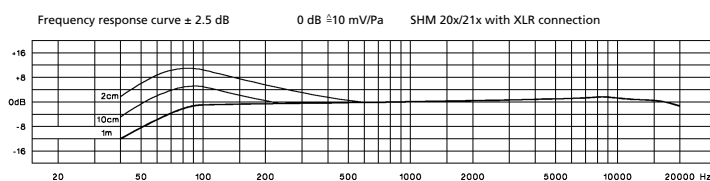
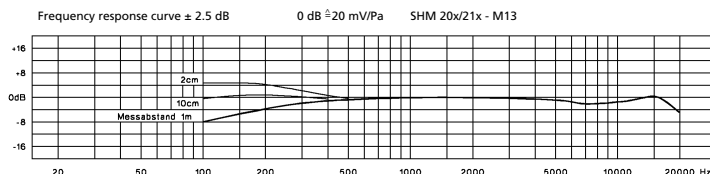
TECHNICAL SPECIFICATIONS

SHM 203 - 215

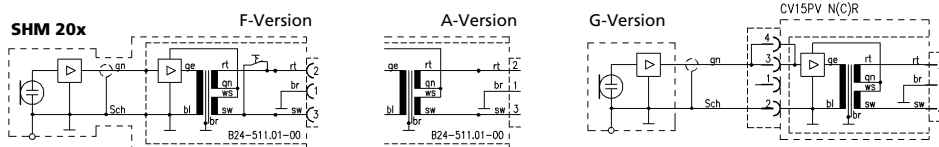
Transducer type	Electret condenser
Operating principle	Pressure gradient
Polar pattern	Cardioid
Frequency response	50 - 19,000 Hz
Open circuit voltage	10 mV/Pa
Nominal impedance	$\leq 200 \Omega$
Load impedance	$\geq 1 \text{ k}\Omega$
Max. SPL	
$f = 1 \text{ kHz}$, $k \leq 1\%$, $R_L = 1 \text{ k}\Omega$	123 dB
Noise voltage	10 μVs
Signal to noise ratio	
related to 1 Pa	60 dB
A-weighted equivalent SPL	26 dB
Wiring	balanced with XLR-socket
Supply voltage	Phantom power 11 - 52 V
Current consumption	approx. 3.5 mA
Illuminated ring:	
Supply voltage	5 - 24 V, depending on the drop resistance
Current consumption	approx. 20 mA
Connection	3-pin XLR (male) - A-version 3-pin XLR (female) - F-version (Compression nut for mounting with integrated hexagonal socket head screw, size 1.3) 4-pin Nexus plug - Y-version 5-pin XLR version with illuminated ring
Head diameter	
with pop screen	approx. 26 mm
without pop screen	approx. 13.5 mm
Length	depending on the version
Weight	depending on the version

FREQUENCY RESPONSE & POLAR PATTERN

This frequency response curve (measuring tolerance $\pm 2.5 \text{ dB}$) and polar pattern correspond to a typical production sample for this microphone.



WIRING DIAGRAMS



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