

# MX405 and MX410 Miniature Gooseneck Microphones

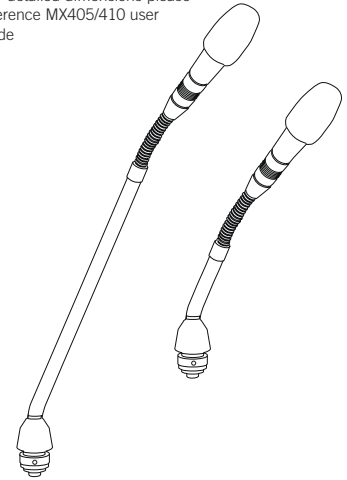
## Overview

Flexible in more ways than one, Microflex Miniature Gooseneck microphones deliver unsurpassed style and performance for conference rooms and similar applications. Offering desktop or mounted bases, wired or wireless options, and even interchangeable cartridges, it's easy to get the perfect fit for your conferencing installation. Fully compatible with SLX® wireless systems, including the SLX4L wireless receiver with logic output for applications requiring logic functionality.

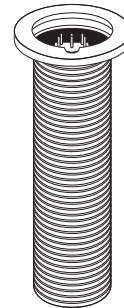
## Specifications (subject to change)

Type	Condenser (electret bias)
Frequency Response	50–17000 Hz
Polar Pattern (at 1 kHz)	MX405/C, MX410/C: Cardioid MX405/S, MX410/S: Supercardioid
Output Impedance	EIA Rated at 150 Ω (170 Ω actual)
Output Configuration	Active Balanced
Sensitivity (at 1 kHz, open circuit voltage)	Cardioid: –35 dBV/Pa (18 mV) Supercardioid: –34 dBV/Pa (21 mV) 1 Pascal=94 dB SPL
Maximum SPL (1 kHz at 1% THD, 1 kW load)	Cardioid: 121 dB Supercardioid: 120 dB
Equivalent Output Noise (A-weighted)	Cardioid: 28 dB SPL Supercardioid: 27 dB SPL
Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)	Cardioid: 66 dB Supercardioid: 68 dB
Dynamic Range (1 kΩ load at 1 kHz)	93 dB
Common Mode Rejection (10 Hz to 100 kHz)	45 dB minimum
Preamplifier Output Clipping Level (1% THD)	–8 dBV (0.4 V)
Polarity	3-Pin XLR: Positive sound pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector. 5-Pin XLR: Positive sound pressure on diaphragm produces positive voltage on pin 4 relative to pin 2 of output XLR connector.
Weight	MX405: 0.054 kg (0.119 lbs) MX410: 0.068 kg (0.150 lbs) MX400DP: 0.516 kg (1.138 lbs) MX400SMP (w/ Kit): 0.125 kg (0.275 lbs)
Logic Connections	LED IN: Active low (≤1.0V), TTL compatible. Absolute maximum voltage: –0.7V to 50V. LOGIC OUT: Active low (≤1.0V), sinks up to 20mA, TTL compatible. Absolute maximum voltage: –0.7V to 50V (up to 50V through 3kΩ).
Mute Switch Attenuation	–50 dB minimum
Cable	MX400DP: 6.1 m (20 ft) attached cable with shielded audio pair terminated at a 3-pin male XLR and three unterminated conductors for logic control
Environmental Conditions	Operating Temperature: –18–57 °C (0–135 °F) Storage Temperature: –29–74 °C (–20–165 °F) Relative Humidity: 0–95%
Power Requirements	48–52 Vdc phantom, 8.0 mA

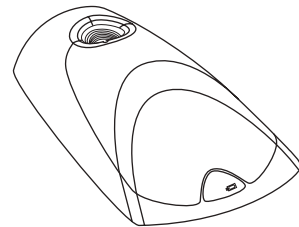
\*for detailed dimensions please reference MX405/410 user guide



**MX410 and MX405**  
Miniature Goosenecks



**MX400SMP**  
Surface Mount Preamp



**MX400DP**  
Wired Desktop Base (also available as MX890  
Wireless Desktop Base)

## Available Models

The polar pattern of the cartridge is indicated by the model number suffix: C = Cardioid, S = Supercardioid, N = No Cartridge

MX405/C, MX405/S	5 inch (127 mm) Gooseneck, bi-color status indicator ring, includes surface mount preamp
MX405R/N	5 inch (127 mm) Gooseneck, light ring, includes surface mount preamp
MX410/C, MX410/S	10 inch (254 mm) Gooseneck, bi-color status indicator ring, includes surface mount preamp
MX410R/N	10 inch (254 mm) Gooseneck, no cartridge, light ring, includes surface mount preamp
MX405LP/C, MX405LP/S	5 inch (127 mm) Gooseneck, bi-color status indicator ring, less preamp
MX405RLP/N	5 inch (127 mm) Gooseneck, no cartridge, light ring, less preamp
MX410LP/C, MX410LP/S	10 inch (254 mm) Gooseneck, cardioid, bi-color status indicator ring, less preamp
MX410RLP/N	10 inch (254 mm) Gooseneck, no cartridge, light ring, less preamp

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## Optional Accessories and Replacement Parts

<b>MX400SMP</b>	Surface Mount Preamp	<b>R185B</b>	Black Cardioid Cartridge for All Microflex Models	<b>A412MWS</b>	Metal Locking Windscreen	<b>A99WS</b>	Big Foam Windscreen
<b>MX400DP</b>	Wired Desktop Base. Includes 10 ft. (6.1 M) attached cable	<b>R184B</b>	Black Supercardioid Cartridge for All Microflex Models	<b>95A2487</b>	Tapered Windscreen		
<b>MX890</b>	Wireless Desktop Base. Compatible with SLX wireless systems	<b>R183B</b>	Black Omnidirectional Cartridge for All Microflex Models	<b>RK412WS</b>	Microflex Windscreen (4pk)		

## Furnished Accessories

Models with included Preamp	All Models
<b>MX400SMP</b>	Surface Mount Preamp
<b>65A2166</b>	Rubber Isolation Rings
<b>65A2190</b>	Wing Nut
<b>95A1118</b>	5 Pin XLR-F
<b>65A2166</b>	Cap
<b>RK513WS</b>	Snap-Fit Foam Windscreen

## Architectural Specifications

**MX405/C** - The microphone shall be an electret condenser 5" gooseneck microphone (12,7 cm) with cardioid polar pattern, black finish, and logic controlled bi-colored status indicator. The microphone shall be mounted in the included MX400SMP preamp. The microphone shall be resistant to RF interference from portable mobile and handheld devices. The frequency response shall be 50 Hz to 17 kHz and the sensitivity shall be 18 mV/Pa.

**MX405/S** - The microphone shall be an electret condenser 5" gooseneck microphone (12,7 cm) with supercardioid polar pattern, black finish, and logic controlled, upper red light ring status indicator. The microphone shall be mounted in the included MX400SMP preamp. The microphone shall be resistant to RF interference from portable mobile and handheld devices. The frequency response shall be 50 Hz to 17 kHz and the sensitivity shall be 21 mV/Pa.

**MX410R/N** - The microphone shall be an electret condenser 10" gooseneck microphone (25,4 cm) with no included cartridge, black finish, and logic controlled, upper red light ring status indicator. The microphone shall be mounted in the included MX400SMP preamp. The microphone shall be resistant to RF interference from portable mobile and handheld devices.

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**MX405LP/C** - The microphone shall be an electret condenser 5" gooseneck microphone (12,7 cm) with cardioid polar pattern, black finish, and logic controlled bi-colored status indicator. The microphone shall be compatible with the MX400SMP or MX890. The microphone shall be resistant to RF interference from portable mobile and handheld devices. The frequency response shall be 50 Hz to 17 kHz and the sensitivity shall be 18 mV/Pa.

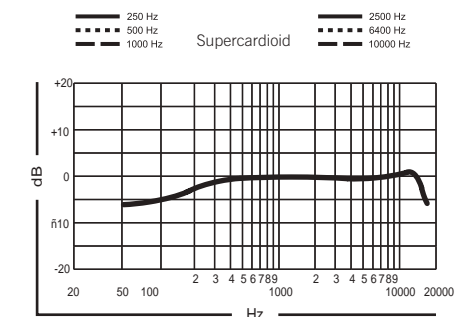
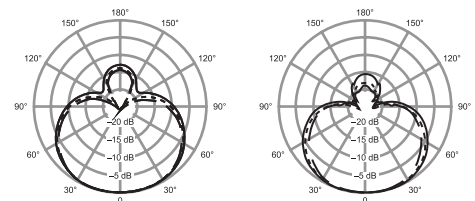
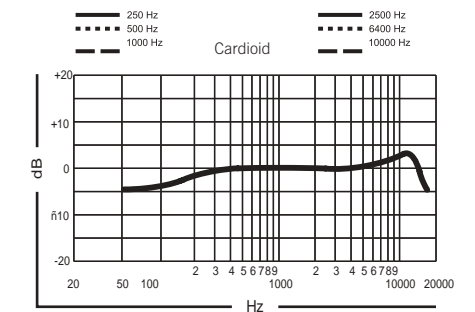
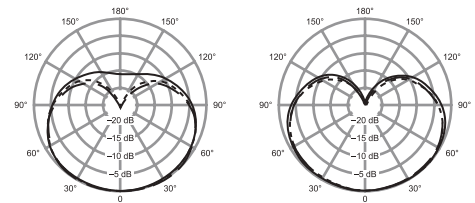
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**MX410RLP/N** - The microphone shall be an electret condenser 10" gooseneck microphone (25,4 cm) with no included cartridge, black finish, and logic controlled, upper red light ring status indicator. The microphone shall be compatible with the MX400SMP or MX890. The microphone shall be resistant to RF interference from portable mobile and handheld devices.

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