

**BEDIENUNGS-  
ANLEITUNG**

**OPERATING  
INSTRUCTIONS**

**NOTICE  
D'UTILISATION**

**MTS 67**

Tischsprechstelle  
Desktop Microphone Unit  
Poste d'appel



**beyerdynamic**

## OPERATING INSTRUCTIONS MTS 67

■ **Thank you for** selecting the MTS 67 desktop microphone unit. Please take some time to read carefully through this operating instructions before setting up the equipment.

### Description

■ **The MTS 67 is** an "intelligent" desktop microphone unit controlled by a microcontroller. Depending on the application, you can choose between the operating modes ON/OFF, Push-To-Talk (PTT) or Push-To-Mute (PTM). Furthermore, the frequency response can be tailored in three modes to suppress noise: linear, 90 Hz bass roll off or 150 Hz bass roll off.

The MTS 67 is switched on and off with the microphone button. An LED indicator in the casing and an illuminated ring of the gooseneck microphone show the ready-to-talk status.

The MTS 67 is available in two versions.

- The MTS 67/3 is equipped with a 3-pin male XLR connector.
- The MTS 67/5 has a 5-pin male XLR connector. This microphone unit can be operated via an external control contact (operator). The integrated microphone button can be either switched on simultaneously or put out of operation. Using the microphone button an external device (e.g. mixing amplifier for announcements) can be triggered by an open collector control output.

### Applications

■ **The MTS 67 is** ideal for discussions, tele/video conferencing and announcements.

### Connection

#### MTS 67/3

■ **The MTS 67/3 microphone** unit is equipped with an integrated amplifier with electronically balanced output. The unit is powered with phantom power (24 to 48 volts). The MTS 67/3 can be connected to mixing console supplying this phantom power for instance.

This is the connection of the 3-pin XLR-plug:

- Pin 1: Ground
- Pin 2: Audio+
- Pin 3: Audio-

## MTS 67/5

■ The **MTS 67/5 microphone** unit is also powered with phantom power (24 to 48 volts). Depending on the application this microphone unit can be connected to a control desk if the microphone unit is operated by an external control contact or to a mixing amplifier if external devices are controlled.

This is the connection of the 5-pin XLR-plug:

Pin 1: Ground

Pin 2: Audio+

Pin 3: Audio-

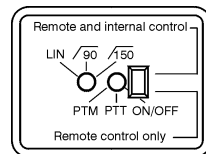
Pin 4: Control output Open Collector 50 mA / 55 V

Pin 5: Control input floating connection to chassis

## Operation

### Adjustment operation mode

■ The **desired operation** mode is set at the bottom of the microphone unit.



- **ON/OFF**

The microphone is switched on or off by pressing the microphone button.

- **PTT**

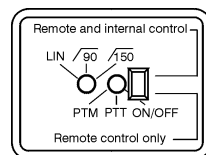
The microphone is switched on as long as the button is pressed.

- **PTM**

The microphone is switched off as long as the button is pressed (cough button).

### Adjustment Frequency Response

■ The **frequency response** mode can be adjusted at the bottom of the microphone unit.



- **LIN**

Linear frequency response for highest fidelity of reproduction. This is the factory adjustment. The linear position is recommended for high voices.

- **90 or 150**

Two-stage roll-off filter to reduce low-frequency noise and to compensate the close-talking effect. The 90 or 150 position is recommended for deep voices.

## **Additional Functions of the MTS 67/5**

### **Control output - Control of external devices**

■ **Pin 4 is an** open collector control output to control external devices. When the microphone is activated the output is low-impedance to chassis (Pin 1). The maximum current is 12 mA, the maximum voltage is 55 V, total power dissipation 150 mW. If you want to connect higher loads, this output can also be used for the control of an additional switch.

#### **Example:**

If you connect the MTS 67/5 to the E 3300 mixing amplifier, the current programme (e.g. music) can be faded out and the microphone switched on for an announcement by pressing the microphone button.

### **Control input - Control by external devices**

■ **The microphone unit** can be controlled by an external control contact connected to pin 5 (floating connection to chassis, pin 1). The operation can be remotely controlled by an operator. Using the DIP switch located on the underside allows you to select between remote control operation (switch to "Remote control only") or microphone button and remote control equally (switch to "Remote and internal control").

#### **Example:**

If you connect the MTS 67/5 to an operating console, video conference or media control system the microphone unit can be switched on and off centrally at the operation console, by the conference participant or by the media control system.

#### **Important!**

To connect the MTS 67/5 use a cable with the following structure:  
2 wires shielded (AF), 2 control lines and overall shield.

### **Versions**

MTS 67/3 with 3-pin male XLR connector . . . Order # 453.862

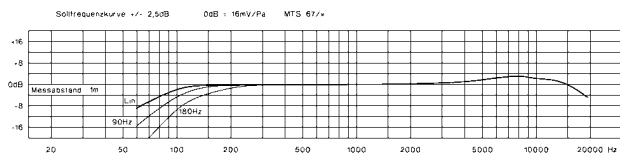
MTS 67/5 with 5-pin male XLR connector . . . Order # 454.168

## Technical Specifications

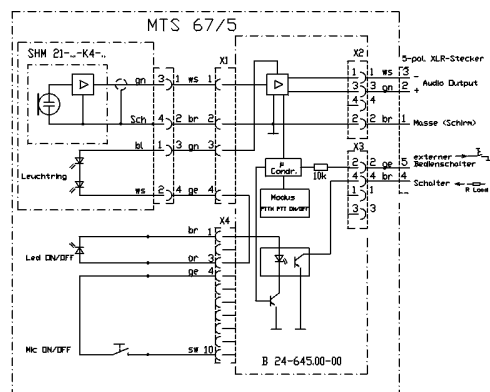
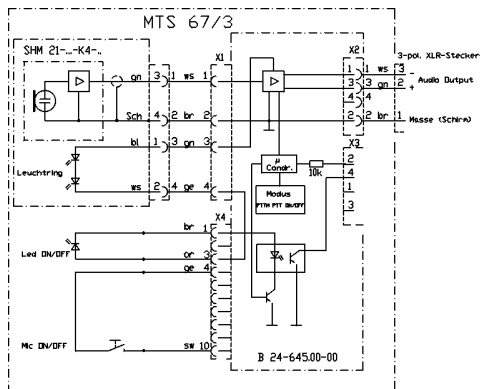
Transducer type . . . . .	Condenser (back electret)
Frequency response (linear) . .	60 - 19,000 Hz
Polar pattern . . . . .	Cardioid
Open circuit voltage	
at 1 kHz . . . . .	16 mV/Pa
Nominal impedance . . . . .	180 $\Omega$
Load impedance . . . . .	> 1 k $\Omega$
Max. SPL	
at f = 1 kHz, k < 1% . . . . .	122 dB
Signal-to-noise ratio	
rel. to 1 Pa . . . . .	60 dB
A-weighted equivalent SPL . .	approx. 26 dB
Level attenuation Off / Mute	
(f = 1 kHz) . . . . .	> 65 dB
Supply voltage . . . . .	24 - 52 V, phantom
Power consumption . . . . .	8.5 mA
Connection MTS 67/3 . . . . .	3-pin male XLR
	Pin 1 = Shield
	Pin 2 = Audio+
	Pin 3 = Audio-
Connection MTS 67/5 . . . . .	5-pin male XLR
	Pin 1 = Shield
	Pin 2 = Audio+
	Pin 3 = Audio-
	Pin 4 = Control output
	Open Collector 50 mA / 55 V
	Pin 5 = Control input
	floating connection to chassis
Gooseneck length . . . . .	400 mm
Dimensions (without microphone)	
L x W x H . . . . .	190 x 104 x 52 mm
Weight . . . . .	770 g

english

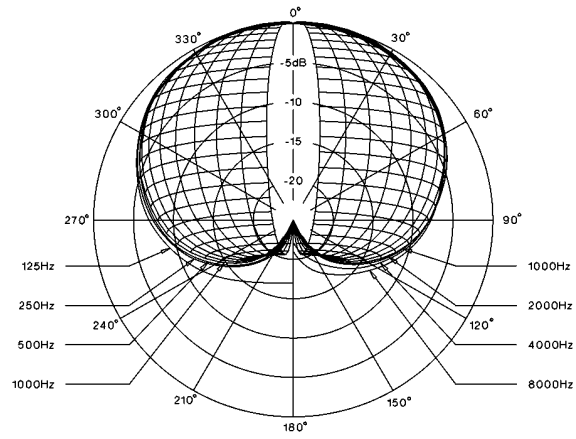
## Frequenzgang / Frequency Response Curve / Courbe de fréquence



## Schaltbilder / Wiring Diagrams / Diagrammes de câblage



**Richtdiagramm /  
Polar Pattern /  
Directivité**



**NOTIZEN • NOTES**





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