AT8684

electronics

UniMute® Mic Attenuator with User-definable Switch Function

Features

- **Versatile attenuator with remote control switch input**
- **Quiet mute operation ideal for condenser microphones**
- **Can be controlled by external control systems, relays or switches**
- **User defines operation by switch type (momentary or locking)**
- **Professional XLR-type input/output connectors**
- **Can be installed anywhere in-line, either at the mixer input or near the microphone**
- **24V to 48V DC phantom power and balanced cables required for operation**
- **Permits phantom voltage to pass on to the microphone**
- **Rugged steel housing, compact size**

Description

The AT8684 UniMute® is part of the UniTools® group of phantom-powered in-line microphone accessories. This versatile device allows for the remote muting from a user-defined switch or closure. Featuring quiet switching operation and designed to operate with condenser microphones, the UniMute® provides 57 dB of attenuation. Designed to operate with balanced audio lines, the UniMute® is powered from 24V to 48V DC phantom power and will pass phantom power to the connected microphones. Featuring a rugged steel housing and XLR-type input/output connectors, the UniMute® can be installed anywhere in-line, either at the mixer input or near the mic.

Architect's and Engineer's Specifications

The phantom powered in-line microphone attenuator shall allow for the remote muting of a balanced line condenser or dynamic microphone. It shall operate using a silent muting circuit providing 57 dB of attenuation. Control input shall be via terminal screws and muting operation (on/off, momentary mute, momentary talk) shall be determined by the external switch parameters. It shall have a frequency response of 20 Hz to 20,000 Hz and a unity gain. The attenuator shall operate from an external 24V to 48V DC phantom power source and shall be capable of passing phantom power up to the connected microphone. Maximum input level for either input shall be +17 dBV (1% T.H.D. at 1 kHz) and the device shall have a self-noise of -115 dBV. Input impedance shall be 5,300 ohms and the output shall be low impedance balanced (500 ohms). Input and output shall be via standard 3-pin XLR-type balanced connectors. The unit shall be 130.0 mm (5.12") wide, 60.0 mm (2.36") deep and 44.0 mm (1.73") high, Weight shall be 250 grams (8.8 oz). Construction shall be of metal with a black finish. All connections and controls shall be located on the top panel and labeled as to function. Mounting tabs with screw holes shall be provided for attaching the unit to a vertical or horizontal surface.

The Audio-Technica AT8684 is specified.

Specifications

Input/Output connectors	XLRF/XLRM-type
Phantom power	24–48V DC, 2-4 mA typical
Frequency response	20–20,000 Hz
Gain	Unity (0 dB), +0/-1.5 dB
Input impedance	5,300 ohms
Output impedance	500 ohms
Maximum input level	+17 dBV (1% T.H.D. at 1 kHz)
Muting attenuation	57 dB at 1 kHz
Noise (A-weighted)	–115 dBV typical
Weight	250 g (8.8 oz) typical
Dimensions	130.0 mm (5.12") W x 60.0 mm (2.36") D x 44.0 mm (1.73") H typical
Notes	UniMix specifications measured at 48V phantom power, 150 ohms input load and 100,000 ohms output load.

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.

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