

## AV11 Electronic Stethoscope

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Electronic Stethoscope AV11 for locating sound sources.

### Uses

- Acoustic Measurements
- Source Location
- Machine Diagnosis

## AV11 Monitor Amplifier

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### Features

- Handheld monitoring probe with permanently mounted 120mm swan-neck and directional Microphone
- Measuring output
- Adjustable Headphones output
- Input amplifier: 0 dB and +20 dB selectable
- Switchable octave filter, 9 frequencies
- Switchable third octave filter, 25 frequencies
- Display with backlight
- Overload indication
- Internal rechargeable accu for portability
- Robust aluminum cabinet

The 1-channel monitor amplifier AV11 is a handheld, accu driven instrument, which has been constructed mainly to monitor acoustic signals with headphones.

AV11 offers you many possibilities to locate disturbance sources. With permanently mounted 120mm swan-neck and directional Microphone.

The measuring signal can be weighted with the switchable octave filter (9 frequencies) or third octave filter (25 frequencies). So you can detect the exact frequencies of the disturbance source.



**Backside**

At the output socket you get a voltage proportional to the sound pressure independent of the amplification of the headphone amplifier. So the instrument can be used as a front end for analyzers or similar instruments.

The AV11 has been constructed for mobile uses. The AV11 is also suitable for robust environmental conditions.

## Technical Data AV11

### *Analog Input*

Permanently mounted 120mm swan-neck with directional Microphone

### *Analog Outputs*

Number: ..... 2

#### 1. Measuring output

Connector: ..... BNC

Output Impedance: ..50  $\Omega$  in series with 10  $\mu$ F

Max. Impedance: ..... > 10 k $\Omega$ , <10 nF

#### 2. Headphones output

Connector: ..... 3.5 mm jack

### *Amplifier*

#### Input amplifier

Amplification:.....0dB, +20 dB

#### Headphones amplifier

Max power: ..... 1W on 16  $\Omega$

Distortion factor: .< 1% at 1 kHz and 4 Vpp

*Bandwidth (Lin., -3 dB):*20 Hz to 20 kHz

### *Filter*

1/1 Octave filter, switchable - Frequencies:

32 Hz, 64 Hz, 125 Hz, 250 Hz, 500 Hz, 1kHz, 2 kHz, 4 kHz, 8 kHz

1/3 Third octave filter, switchable - Frequencies:

32 Hz, 40 Hz, 50 Hz, 64 Hz, 80 Hz, 100 Hz, 125 Hz, 160 Hz, 200 Hz, 250 Hz, 320 Hz, 400 Hz, 500 Hz, 640 Hz, 800 Hz, 1 kHz, 1,25 kHz, 1,6 kHz, 2,0 kHz, 2,5 kHz, 3,2 kHz, 4 kHz, 5 kHz, 6,4 kHz, 8 kHz

### *Power supply*

internal: .....4,8 V rechargeable accu

external: ..... 100-240 V / AC plug-in charger

Current consumption:..... 100 mA – 150 mA

Battery operating time:..... 6-8 h

### *Operating conditions*

Operating temp. range: ..... +/- 0°C to +50°C

### *Mechanical Data*

Cabinet material:.....Aluminum

Dimensions with swan-neck (W x H x D):

41 x 24 x 510 mm

Weight with accu:.....approx. 350 g

### *Accessories included*

100-240 V / AC plug-in charger