AV10 Electronic Stethoscope

Electronic Stethoscope AV10 for locating sound sources.

Uses

- Acoustic Measurements
- Source Location
- Machine Diagnosis

AV10 Monitor Amplifier

Features

- Handheld monitoring probe with permanently mounted 120mm swan-neck and directional Microphone
- Linear frequency range
- Measuring output
- Adjustable Headphones output
- Input amplifier: 0 dB and +20 dB selectable
- Internal rechargeable accu for portability
- Robust aluminum cabinet

The monitor amplifier AV10 is a handheld, accu driven instrument, which has been constructed mainly to monitor acoustic signals with headphones.
AV10 offers you many possibilities to locate disturbance sources.

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 AV10 has been constructed for mobile uses. The AV10 is also suitable for robust environmental conditions.

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Technical Data AV10

Analog Input

Permanently mounted 120mm swan-neck with directional Microphone

Analog Outputs

Number: 2

1 Measuring output

Connector: ....BNC
Output Impedance: ..50 Ω in series with 10 µF
Max. Impedance: ....> 10 kΩ, <10 nF

2 Headphones output

Connector: .... 3.5 mm jack

Amplifier

Input amplifier

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

Headphones amplifier

Max power: .... 1W on 16 Ω
Distortion factor: .< 1% at 1 kHz and 4 Vpp

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

Power supply

internal: ....4,8 V rechargeable accu
external: .... 100-240 V / AC plug-in charger
Current consumption:............50 mA – 100 mA
Battery operating time:.......................... 8-10 h

Operating conditions

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

Mechanical Data

Cabinet material:.............................Aluminum
Dimensions (W x H x D):   41 x 24 x 256 mm
Weight with accu:.......................approx. 350 g

Accessories included

100-240 V / AC plug-in charger