



AV14S

1 Channel IEPE Amplifier with Headphone Output



USES

- Acoustic and Vibration Measurements
- Source Location
- Machine Diagnostics

FEATURES

- IEPE Sensor input
- Adjustable Headphones output
- Preamplifier Function (additional output)

The 1-channel IEPE amplifier AV14S is a small accumulator-driven instrument, which has been constructed mainly to monitor acoustic or vibration signals. It has 1 measuring channel for an IEPE microphone or IEPE accelerometer. A headphone output is built in for monitoring purposes. The loudness of the headphone can be adjusted by the potentiometer on the right side of the instrument.

At the output socket you get a voltage proportional to the acceleration or 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.

Technical Data

Inputs

IEPE Sensor input: BNC

Headphones - Amplifier

Frequency response: -3 dB between

..... 20 Hz -20 kHz

Max. Output voltage: 2 Vpp*) at 150 Ω

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

Output socket: 3.5 mm stereo jack

Measuring Amplifier

Output socket: BNC (on rear panel)

Max. Output voltage: 2 Vpp

Output Impedance: 50 Ω in series with 10 μ F

Max. Impedance: > 10 k Ω , < 10 nF

Frequency response: -0.5 dB between

..... 2 Hz - 300 kHz

Sensor power supply

Voltage: 22 V / 4mA

LED

„Supply Voltage“ green

„IEPE Supply Voltage“ green

“Charging” (rear panel) red

Power Supply

Supply:

Rechargeable Lion Accu 3,7 V / 680 mAh

Battery Charge: 5V USB mini, approx. 4 h

Current Consumption: 30 to 50 mA, depends on

..... adjusted amplification

Accu lifetime: approx. 8-9 h, depends on

..... headphone level

Operation conditions

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

Mechanical Data

Cabinet material: Aluminum

Dimensions (W x H x D): 55 x 25 x 100 mm

Weight with batteries: ca. 250 g

Safety

IEC61010

EMC

EN55103-1, EN55103-2

Accessories included

- Internal rechargeable battery
- USB A to USB mini charging cable 1.5 meter

Optional Accessories

- Microphone MI10Si *
- Headphones KH10 *
- Carrying Case KO10 *
- IEPE accelerometer