

MESSELEKTRONIK ULRICH FALM

Schall- und Vibrationsmessgeräte

AV14

1-Channel Monitor Amplifier and Charge Amplifier

USES

- Acoustic and Vibration Measurements
- Source Location
- Machine Diagnostics

FEATURES

- Electret condenser microphone input
- Piezoelectric accelerometer input
- Adjustable Headphones output
- Preamplifier Function (additional output)



The 1-channel charge amplifier AV14 is a small battery-driven instrument, which has been constructed mainly to monitor acoustic and vibration signals. It has a measuring channel for an electret condenser microphone or a piezoelectric accelerometer. The switching over from the accelerometer to the microphone comes automatically, when the microphone mini-jack is plugged in. 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.



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Technical Data

Inputs Piezoelectric accelerometer input: Microdot Microphone input: LEMO 00
Headphones - Amplifier Frequency response:3 dB between
30 Hz –20 kHz
Max. Output voltage:
Output socket:3.5 mm stereo jack
Measuring Amplifier
Measuring Amplifier Output socket:BNC (on rear panel)
Output socket:BNC (on rear panel)
Output socket:BNC (on rear panel) Max. Output voltage:5 Vss
Output socket:
Output socket:
Output socket:

LED

"Supply Voltage"gre	en
"Charging" (rear panel)	red

Power Supply

Supply:

Operation conditions

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

Mechanical Data

Cabinet material:	Aluminum
Dimensions (W \times H \times D):55 \times 29	5 × 100 mm
Weight with batteries:	ca. 250 g

Safety

IEC61010

EMC

EN55103-1, EN55103-2

Accessories included

Sensitivity (Piezoelectric

- · Internal rechargeable battery
- External AC adaptor, 100-240 VAC / 12 VDC

accelerometer): 1 mV/pC or 10 mV/pC, ±2 %

Optional Accessories

- Microphone MI10 *
- Headphones KH10 *
- Carrying Case KO10 *
- Piezoelectric accelerometer
- * AV14 is also available as part of an electronic stethoscope: ES11

Messelektronik Ulrich Falm reserves the right to change specifications and accessories without notice.