DIGITAL INDUSTRIES SOFTWARE

Simcenter Qsources measurement amplifier

Simcenter/Q-AMP/K/2022I/20221110

Product Information Sheet

Summary

The Simcenter Qsources measurement amplifier has been designed to power all Simcenter Qsources structural and acoustic exciters. The BNC input and banana output connectors are chosen to match all Simcenter Qsources exciters. The amplifier provides a pop-free start-and-stop control. Excessive heat is transferred to its housing, which serves as a heatsink.

The absence of a ventilator makes it a low-noise amplifier, essential for acoustic measurements.

BENEFITS

- Enables connection with front pannel for fast test setup
- Eases mobility due to lightweight design
- Suits all Simcenter Qsources hardware

FEATURES

- High-power output
- Fanless housing
- Robust lightweight housing
- Built-in protection that prevents damage to connected excitation equipment

It is compatible with all Simcenter Qsources exciters:

- Low Mid Frequency Volume Source
- (Q-LMF)
- Mid High Frequency Volume Source
- (Q-MHF)
- High Frequency Shaker (Q-HSH)
- Miniature Shaker (Q-MSH)
- Thumper Shaker (Q-TMP)
- Low Frequency Monopole Source
- (Q-MED)

Physical specifications

- Dimensions: 330X70X182mm
- Mass: 3.2 kilograms (kg)
- Input connector type: female BNC
- Output connector type: female banana

Performance

- Max input signal voltage: 10 volt (V) peak
- Maximum output voltage: 31 Vrms
- Maximum output current: 6.5 Ampère rms (Arms)
- Amplification (relative to input signal): -32 to 28 decibels (dB)
- Amplification accuracy: 0.5 dB
- Frequency range (+1dB/-3 dB): 10 to 40,000 Hz
- Minimum/maximum output load impedance: 3/100 Ohm nominal
- Signal to noise ratio: >110 dB
- Available in 115/230V version

Supplied accessories

- User manual
- Power cable
- Flight case

Simcenter Qsources structural and acoustic

- Low-mid frequency volume source [Q-LMF]
- Mid-high frequency volume source [Q-MHF]
- High frequency shaker [Q-HSH]
- Miniature shaker [Q-MSH]
- Thumper shaker [Q-TMP]
- Low-frequency monopole source [Q-MED]

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