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Simcenter Qsources measurement amplifier

Product Information

Simcenter/Q-AMP/3/20211/20210528

Benefits

- Connect everything on front pannel for fast test setup
- Increased mobility due to lightweight design
- Provide one amplifier for all Simcenter Qsources hardware

Features

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

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.

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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