

DATA SHEET

376M03 PHANTOM-POWERED MEASUREMENT MICROPHONE

for Acoustic and Electro-Acoustic Test and High Definition Recording



APPLICATIONS

- Loudspeaker measurements
- Building acoustics
- Real-time analysis
- High definition recording

HIGHLIGHTS

- Quickly and easily change between ½" and ¼" IEC 61094-4 compliant microphone cartridges.
- 22 dB(A) noise floor, 40 kHz frequency response as configured. As low as 15.5 dB(A) noise floor, or 100 kHz frequency response when configured with alternative microphone cartridges.
- Uses standard XLR-terminated mic cables. Star-quad cabling and a differential microphone input can provide high immunity to incidental noise pickup.
- Includes a 079A49 microphone holder, threaded for a standard 5/8"-27 mic stand.

STANDARDS COMPLIANCE

- IEC 61094-4 compliant microphone cartridge mounting (compatible with AP 377M31, 377M32 and 377M33 cartridges).
- Microphone complies with IEC 61672 requirements of a class 1 sound level meter.
- Calibration reference microphone traceable through an accredited national lab.
- A2LA, ILAC accredited, CE marked.

376M03 ¹/₂" phantom-powered microphone system

Audio Precision offers a family of measurement microphones designed to provide ready solutions for our customers working in acoustic test. The Audio Precision model 376M03 is a calibrated microphone system, mounting a 377M32 cartridge to the 426M16 preamplifier in its ½" configuration. This system provides excellent low-noise performance coupled with a response past 40 kHz.

Alternative Configurations

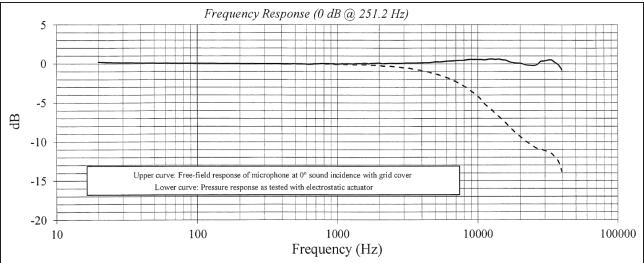
With the 376M03 microphone system, we are introducing the 426M16: a flexible, phantom-powered preamplifier that can mount either $\frac{1}{2}$ " or $\frac{1}{4}$ " standard IEC 61094-4 prepolarized microphone cartridges.



426M16 preamplifier components, which can be assembled for use with either $\frac{1}{2}$ " or $\frac{1}{4}$ " mic cartridges.

For example, if you require an extended frequency response (up to 100 kHz) coupled with high level capability (164 dB), the optional ¼" Audio Precision 377M33 cartridge is the right choice. Or, if high sensitivity and quiet performance are paramount, the optional ½" Audio Precision 377M31 mic cartridge has a self-noise of only 15.5 dB(A). Excellent specifications, phantom powering and switchable cartridges make systems built around the 426M16 preamp an attractive approach for audio test, and also for recordists exploring high definition audio. This flexibility lets you select a cartridge with the performance required for a specific test, while leveraging the investment in a single universal preamplifier.

AUDIO PRECISION MODEL 376M03 MEASUREMENT MICROPHONE



376M03 frequency response at factory calibration.

SPECIFICATIONS ACCESSORIES OPTIONAL **OPTIONAL** CONFIGURATION #2 **CONFIGURATION #3** 376M03 SYSTEM PREAMPLIFIER APx1701 Audio Precision 426M16 preamplifier 426M16 preamplifier 426M16 preamplifier Transducer Test Interface MIC CARTRIDGE 377M32 mic cartridge 377M31 mic cartridge 377M33 mic cartridge CAB-XLR8 8' XLR-M to XLR-F balanced MIC CARTRIDGE DIAMETER ½" (12 mm) 1/2" (12 mm) ¼" (6 mm) shielded cable FREQUENCY RANGE ±2 dB 3.15 Hz to 31,500 Hz 3.75 Hz to 20,000 Hz 5 Hz to 80,000 Hz 079A06 Foam windscreen for 1/2" microphones FREQUENCY RANGE ±3 dB 3 15 Hz to 40 000 Hz 2.5 Hz to 22,500 Hz 4 Hz to 100 000 Hz 079A07 Foam windscreen for ¼" SENSITIVITY AT 250 Hz 12.6 mV/Pa 50 mV/Pa 2 mV/Pa microphones INHERENT NOISE 22 dB(A) re 20 µPa 15.5 dB(A) re 20 µPa 40 dB(A) re 20 µPa CAL200 Sound level calibrator, 1 kHz, 94 and 114 dBSPL, OVERLOAD AT 3% THD 150 dB re 20 µPa 137 dB re 20 µPa 164 dB re 20 µPa for ½" diameter mics LENGTH WITH CARTRIDGE AND GRID 6.85" (174 mm) 7" (178 mm) 6.85" (174 mm) CAL200 to ¼" microphone ADP024 DIAMETER AT XLR CONNECTOR 0.79" (20 mm) adapter CAI 250 Sound level calibrator, CARTRIDGE DIAPHRAGM MATERIAL Stainless alloy 250 Hz, 114 dBSPL, for 1" 10 Vpp (48 V), 6 Vpp (24 V), 3 Vpp (12 V) -**OUTPUT VOLTAGE** and ½" diameter mics. (BY PHANTOM VOLTAGE SUPPLY) CAL250 to ¼" microphone ADP021 OUTPUT POLARITY XLR pin 2 high for positive pressure adapter **TEMPERATURE RANGE** -40°C to +65°C -DIRECTIONAL PATTERN Omnidirectional

MICROPHONE CARTRIDGES

All of our Audio Precision branded microphone cartridges are compatible with the 426M16 preamplifier. Unlike the plastic diaphragms used in some pre-polarized microphones, Audio

Precision brand cartridges use a stainless alloy which remains stable during temperature, humidity and atmospheric pressure changes, yielding more accurate test results. The stainless alloy diaphragm provides easy calibration over the entire frequency range of the cartridge and allows for the use of electrostatic actuators, which are common calibration devices. Avoid removing the grid cap. Do not touch the microphone diaphragm.

CALIBRATION AND WARRANTY

Audio Precision measurement microphones are made in the United States. The

microphones are manufactured to the highest standards, using a combination of systematic quality control, the finest materials, and clean-room assembly. The products are exposed to an extensive aging program in climate-controlled test chambers to ensure the most stable product. Factory assembled preamplifier/cartridge systems are qualified and come with a traceable calibration certification, and are backed by a five-year warranty.

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