

7052PH Phantom-Powered Measurement Microphone System

DESCRIPTION

The **7052PH** is a phantom-powered measurement microphone system offering a cost-effective way to perform acoustic measurements. Designed to work with 18-48 VDC phantom power, the **7052PH** system includes the **7052E** microphone capsule (mic) and the **4048 ACOtron™** preamp. It works with pro audio interfaces (M-Audio, PreSonus, Lexicon, etc.), portable digital recorders, and TEF-20 analyzers that have phantom-powered 3-pin XLR mic inputs.

The rugged Titanium diaphragm of the **7052E** mic provides excellent long-term stability and temperature handling -- better than mics that use Polyester™ diaphragms.

The companion **4048 ACOtron™** preamp features low noise and a wide dynamic range. A **WS1** 3" diameter foam windscreens is available.

FEATURES

- Titanium diaphragm for stable sensitivity and frequency response
- Complete low-cost microphone system
- Phantom powered with 3-pin XLR connector -- works with pro audio interfaces and portable digital recorders
- Wide, flat frequency response
- Low noise, wide dynamic range

APPLICATIONS

Acoustical measurements of loudspeakers, microphones (as a reference mic), sound systems, room acoustics, recording, live sound

SPECIFICATIONS

7052E 1/2-inch electret free-field microphone (mic capsule)

Type: IEC61094-4 Compliant

Frequency response: < 3 Hz to > 25 kHz typical (see 7052E data sheet for chart)

Sensitivity: 35 mV/Pa (-29 dBV/Pa) typical

Dynamic range: < 18 dBA noise floor to 150 dB SPL at 1% THD.

Diaphragm material: Titanium

TempCo: 0.01 dB/C°

Mounting thread: 11.7 mm 60USN2

Housing: Non-magnetic

4048 ACOtron™ 1/2-inch phantom-powered preamp module

Frequency response (with dummy mic **DM2-22****):
4 Hz to 200 kHz (-2 dB)

Preamp loss with DM2-22** (similar to **7052H** capsule): 1.05 dB typical

Noise floor (with **DM2-22****): 1.9 µV typical, about 16-18 dBA with the **7052H** microphone (depends on mic's actual sensitivity)



Input voltage for 1% THD: 5 Vrms (14 dBV) with 18-56 VDC phantom power

Maximum change in sensitivity over operating voltage range:
< 0.1 dB

Mic mounting thread: 11.7 mm 60USN2

Output connector: XLR 3-pin male

Current draw: 3 to 4 mA

Housing: Stainless steel (non-magnetic)

OPTIONS (see product data sheets)

- **MK224** mic capsule (3 dB higher sensitivity, 3 dB lower noise, 3 dB lower maximum SPL. 50 mV/Pa. System model number is **MK224PH**)
- **ICP1248** phantom to ICP convertor (for use with ICP/IEPE sensors such as accelerometers, **4212 ACOtron™** mic preamp, etc.)

ACCESSORIES (see product data sheets)

- **WS1-80T, WS7 or WS7-80T** (treated) windscreens
- **MATT** Microphone Attenuator (Allows higher SPL capability. 20, 30, or 40 dB attenuation available)
- ****DM2-22** Dummy Mic (22 pF input capacitance)

ACO Pacific Inc., 2604 Read Avenue, Belmont, CA 94002, USA

TEL 650-595-8588 FAX 650-591-2891 email: sales@www.acopacific.com

www.acopacific.com

© 2009 ACO Pacific Inc.