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# Phantom Power

7052PH Mic System

MK224 Mic System

IEPE1248 Phantom to IEPE

## DESCRIPTION

The **7052PH** phantom powered measurement microphone system provides a cost effective solution for acoustic measurements. The **7052PH** system includes: the **7052E** capsule which meets the stringent international **IEC61094-4** measurement microphone standard; the **4048** phantom preamp operating on 15-56 Vdc phantom power, and the WS1 wind-screen. It works with pro-audio interfaces(M-Audio, PreSonus, Lexicon, etc.) portable digital recorders, and TEF 25 and TEF 20 analyzers, as well as other equipment with 3 pin XLR phantom power inputs.

The rugged Titanium diaphragm of the 7052E capsule features excellent IEC61094-4 long-term and environmental stability unlike many capsules based on polyester diaphragms. The 4048 ACOtron™ preamp offers low noise and wide dynamic range.

## FEATURES

- Titanium diaphragm for stable response and sensitivity
- Phantom powered with industry standard 3 pin XLR connector
- Flat frequency response
- Low noise, wide dynamic range

## SPECIFICATIONS

7052E Capsule

Type: Free Field IEC61094-4 Compliant

**Frequency response:** <3 Hz to >25kHz typ.

**Sensitivity:** 35 mV/Pa (-29 dBV/Pa) typ.

**Dynamic range:** <18 dBA to .150 dB SPL @ 1% THD

**Diaphragm:** Titanium

**TempCo:** 0.01 dB/C

**Mounting Thread:** 11.7 mm 60UNS2

**4048 ACOtron™** 1/2 Inch phantom powered preamp

**Frequency response:** <4Hz to >200kHz (-2 dB)\*\*

**Preamp Loss:** 1.1 dB typ\*\*

**Noise Floor:** 1.9uVA typ \*\*

**Input Vrms for 1% THD:** 5Vrms(14 dBV) 15-56 Vdc

**Mic Mount:** 11.7 mm 60UNS2

\*\* Using a DM2-22 Dummy Microphone



4048 ACOtron™  
Mic Preamp

WS1 Windscreen

7052E Titanium  
Mic Capsule

**Output Connector:** XLR 3 pin Male

**Current I ma:** 3 to 4 mA

**Housing:** Stainless Steel(non-magnetic)

**OPTIONS** (see product data sheets)

**MK224:** (MK224PH) FF 50 mV/Pa, lower noise

**IEPE1248** Phantom to IEPE convertor(use with IEPE sensors such as the 4212 ACOtron preamp etc.

**ACCESSORIES** (see product data sheets)

**WS1-80T, WS7, or WS7-80T** (T=Treated) windscreens

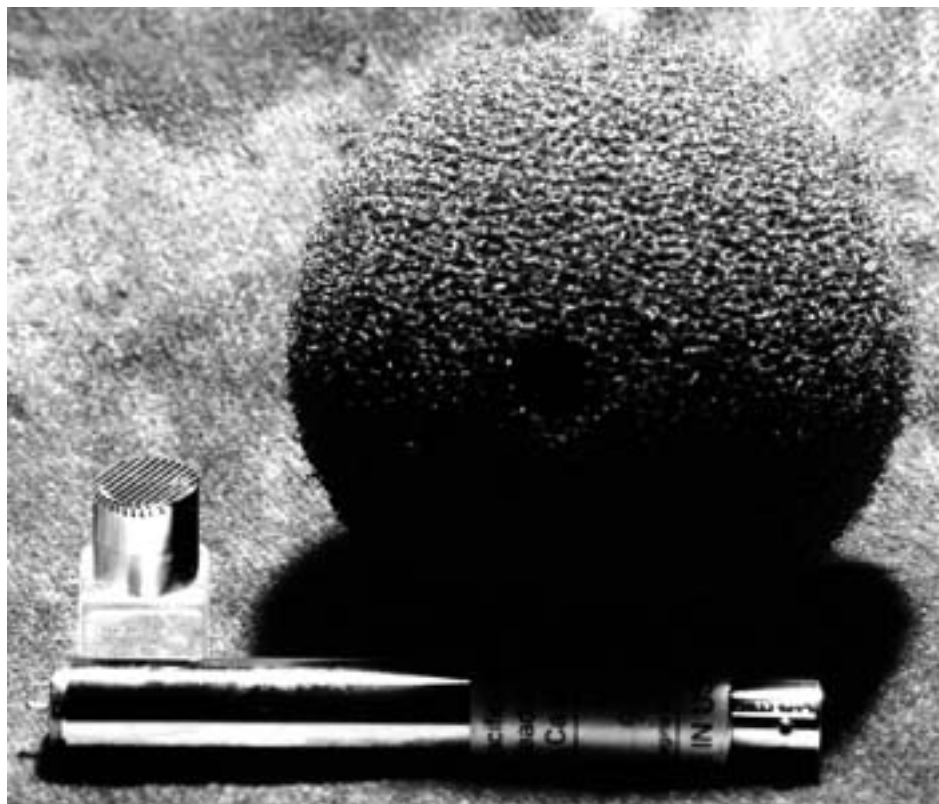
**MATT-XX** Microphone Attenuator 10,20 and 30 dB attenuation available(for higher SPL ability)

\*\***DM2-22** Dummy Mic (22pF input capacitance)

Simulates mic capacitance for preamp electrical tests

# ACOustics begins with ACO™

**7052SYS**  
**IEPE MEASUREMENT**  
**MICROPHONE SYSTEM**



**7052E FF Capsule**  
**IEC 61094-4 Compliant**  
**4212 ACOtron™**  
**IEPE/CCLD Preamp**  
**WS1 Windscreen**

**Also Available MK224SYS**  
**(MK224 - 50mV/Pa Capsule)**

The 7052SYS IEC61094-4 measurement microphone system offers a cost effective option to acoustics measurements. Compatible with the IEPE industry standard, existing ACOtron™, CCLD and similar equipment. The 7052SYS features the 7052E with its rugged Titanium diaphragm for excellent longterm stability and temperature performance, the 4212 ACOtron™ preamp offering both low noise and a wide dynamic range, and the WS1 3" Windscreen.

**SPECIFICATIONS:**

**7052E 1/2 Inch Electret Free Field Microphone**

**IEC61094-4 Compliant**

**Frequency Response:** <3 Hz to > 25kHz typ.

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

**Dynamic Range (capsule) 1% THD:** <18dBA-150dB SPL

**Diaphragm Material:** Titanium

**TempCo:** 0.01 dB/C

**Mounting Thread:** 12.7 mm 60UNS2

**WS1 3 Inch Windscreen** 20ppi

**Mounting:** 1/2 Inch Hole

**WS1-80T Treated - Outdoor windscreen - Optional**

**4212 ACOtron™ 1/2 Inch CCLD/IEPE Mic Preamp**

**Frequency Response@ 22 pF :** 5 Hz to 200 kHz (-2 dB)

**Loss @22 pF:** 1.1 dB typ.

**Noise Floor @ 22 pF:** 1.9 uVA typ

**Output Performance 1% THD 18-30 Vdc:**

**4 mA/20 kHz - 14 Vpp 5000pF load**

**20 mA/20 kHz - 14 Vpp 50000pF load**

**Power Supply Sensitivity:** <0.1 dB 15-30Vdc&2-20 mA

**Mounting Thread:** 11.7 mm 60UNS2

**Power/Output Connector:** BNC Female

**Accessories:** PSIEPE4 and IEPE1248 IEPE Convertors

**MM2 Microphone Mount, MATT-XX Mic Attenuator**

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