PRODUCT 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 windshield. 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 dBSPL@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

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
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-150dBSPL
- 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 uV A 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

ACOustics Begins With ACO™