



ACO Pacific, Inc,

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4012 Family

(4012, 4016, 4022)

High Performance

- Low Power
- Low Noise
- Extended Frequency Response
- IEC1094 Compatible Microphone Threads

Detachable Cable:

- Ease of Installation • Easy Storage • Ease of Repair

A Selection of Connectors:

- Polarized and Electret Versions (E)
- 5 Pin XLR Our Standard - Cost Effective
- Lemo 7 Pin Compatible-Agilent/HP,B&K,GRAS & Others
- Custom Cable Lengths/Connectors Available

Models:

- 4012 w/CA4012 Cable (5 Pin XLR)
- 4012L7 w/CA4012L7 Cable (7 pin Lemo)
- 40L12- Lemo 1B 7 Pin Male Connector -No Cable
- 40X12- XLR 5 Pin Male Connector - No Cable
- 4022 Preamp - 4012+AD0122 for 1 Inch Capsules (XLR or Lemo)
- 4016 Preamp - 4012+AD0016 for 1/4 inch Capsules (XLR or Lemo)

Specifications

Electrical: Typical

- Test conditions - 28 Vdc, DM2-22 (22pF) Dummy Microphone

Frequency Response:

<2 Hz >200kHz +/- 0.5 dB

0.5Hz to >> 200kHz +/- 2 dB

- Insertion Loss: <0.15 dB @ 1kHz

- Input Impedance: >25 Gohms/0.1 pF

- Noise(typ): "A" weighted 1.5 uV ; 22 Hz -22kHz 3 uV

- THD: 1% @ 1Khz 7Vrms @ 28Vdc, >14 Vrms @ 50Vdc

- Power: 28 Vdc @ 1 mA, 50Vdc @ <2mA Opt (HP) 2x mA

Mechanical

- Microphone Mount: 11.7mm- 60UNS Thread

Cables

CA4012 Standard Preamp 5 Pin XLR - 2 meters standard

CA4012L7 7 Pin Lemo cable - 2 meters standard

Custom Cables - built to specified length "XX" in Feet

CA4012-5-XX and CA4012L7-XX CE4012 Preamp Extension

5 Pin XLR (-5) and 7 Pin Lemo(L7)

Custom Connectors Available i.e. QXLR, 4 Pin XLR , etc...

ACOtron™ Preamps

4012 Family

4016 1/4 Inch & 4022 1 inch

4012 1/2 inch microphone preamplifier

Polarized and Electret (E) Versions



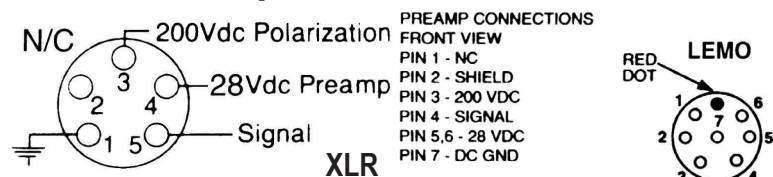
4012 and 4012L7 Preamps Shown with PS9200 ACoustical Interface™ Family

Accessories:

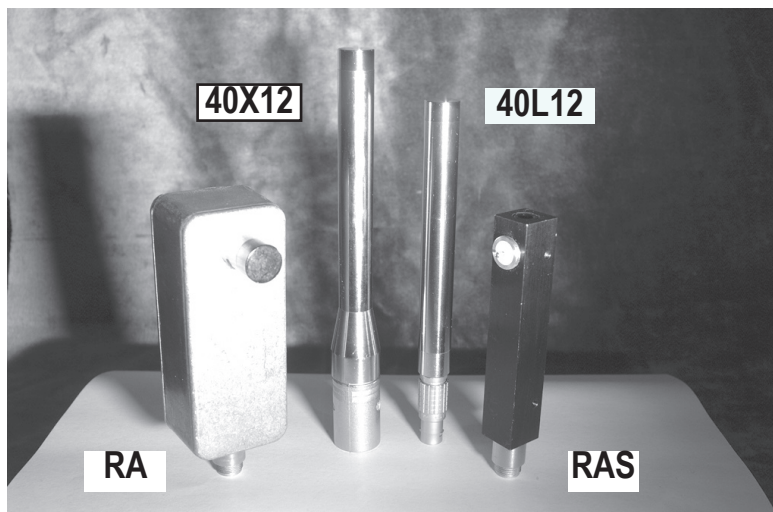
- AD0122 1 Inch capsule to 1/2 inch preamp
- AD0016 1/4 Inch capsule to 1/2 Inch preamp
- DM2-22 Dummy Microphone 22pF, DM2-1K 1000pF or Custom
- MATT-XX Microphone Attenuator 20 and 30 dB values standard
- WS1 3 inch and WS7 7 inch Standard 20 ppi Windscreens
- WS1-80T and WS7-80T Outdoor Treated 80 ppi Windscreens

Microphone Systems: PS9200KIT Family

Preamp Cable Connections



SPECIALTY PREAMPS



ACOustics begins with ACO™

DS4012-20110202revA



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ACOtron™ Preamps

4212

IEPE

1/2 inch microphone preamplifier

4212

High Performance

- IEPE/DeltaTron(B&K) Compatible
- Extended Frequency Response
- Low Noise
- IEC1094 Compatible 1/2 inch Microphone Threads

Cable:

- Industry Standard BNC Female Connection

Options

- Right Angle Package: RA and RAS Versions
- IEPE1248 (Phantom) and PSIEPE-4 (PS9200) IEPE Adaptors

Specifications

Electrical: Typical

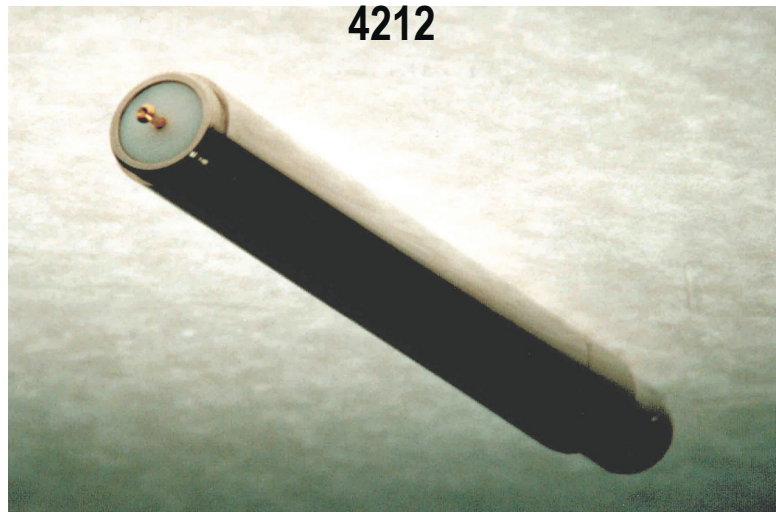
- Using DM2-22 (22pF) Dummy Microphone
- **Frequency Response:**
 - <10Hz >200kHz +/- 0.5 dB
 - 4 Hz to >> 200kHz +/- 2 dB
- **Insertion Loss:**
 - <1.1 dB @ 1kHz
- **Loss Variation - Power Supply Sensitivity**
 - 2mA to 20mA < 0.1 dB
 - 15-30 Vdc <0.05 dB
- **Input Impedance:**
 - >1 Gohms//0.6 pF
- **Noise(typ):**
 - "A" weighted 1.8 uV ; 22 Hz -22kHz 8 uV
- **THD- 1%@1Khz :**
 - 14 Vp-p@4mA 5nF load, 14 Vp-p @20mA 50nF load
- **Power:**
 - 15-50Vdc @ 2-30 mA 18-30 Vdc Recommended
- **Temperature:**
 - Operating -20 to >60C

Mechanical

- Microphone Mount:
11.7mm- 60UNS Thread

Options

- **Right Angle Preamps:**
4212RA
4212RAS



4212

Models:

4212

4212RA Right Angle Preamp

4212RAS Right Angle Preamp

- **Microphone Systems:** Mic, 4212 preamp & WS1 windscreen
 - 7052SYS- 7052E Microphone Capsule (-)29dBV/Pa
 - MK224SYS- MK224 Microphone Capsule (-)26 dBV/Pa

Accessories:

- DM2-22 Dummy Microphone 22pF, **DM2-1K** 1000pF or Custom
- ATT-XX** Microphone Attenuator 20 and 30 dB values standard
- WS1** 3 inch and **WS7** 7 inch Standard 20 ppi Windscreens
- WS1-80T** and **WS7-80T** Outdoor Treated 80 ppi Windscreens
- ODM Family** -Outdoor Microphone Assemblies

IEPE/ICP Power Convertors:

- ICP1248:** Phantom Power to IEPE Convertor - 4mA (typ)
- PSIEPE-4:** PS9200 (XLR) to IEPE Convertor - 4 mA (typ)

SPECIALTY PREAMPS



4212RAS

4212RA

ACOustics begins with ACO™

DS4212-20110202revA