Blasting Measurement Microphone
FOR USE WITH ECHOPRO & FUSION BLAST MONITOR

APPLICATIONS
The 7052S/4052 Measurement Microphone/Preamp is intended for OEM applications requiring a cost-effective, stable, flat, and rugged mic. The back electret construction eliminates the need for any polarizing voltage. The Titanium diaphragm assures both short and longterm stable frequency and amplitude response over a wide range of environmental conditions. The performance exceeds IEC specifications for TYPE 2 microphones. The ES7052/ES4052 extends the low frequency performance of the standard 7052/4052 mic/preamp combination.

Perfect for Compliance Monitoring and other air pressure monitoring applications.

Microphone and pre-amp assembly shown at right with optional 3" foam wind shield.
# TECHNICAL SPECIFICATIONS

## 7052 / 4052

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Response:</strong></td>
<td>20 Hz to 20 kHz ± 3dB Determined by the preamp</td>
</tr>
<tr>
<td><strong>Sensitivity:</strong></td>
<td>7052S Capsule - (-)33dBV/Pa (20 mV) Open Circuit</td>
</tr>
<tr>
<td><strong>Preamp Loss:</strong></td>
<td>-Preamp Loss: -2 dB Typ</td>
</tr>
<tr>
<td><strong>Preamp Operating Voltage:</strong></td>
<td>(+)9Vdc to 15 Vdc</td>
</tr>
<tr>
<td><strong>Usable Dynamic Range:</strong></td>
<td>24 dBA (equivalent “A” weighted noise floor)</td>
</tr>
<tr>
<td><strong>Preamp Connector</strong></td>
<td>Cable - ACO Pacific Model Number 7052SC</td>
</tr>
<tr>
<td><strong>Connector Pinout:</strong></td>
<td>Pin A - (V+) Pin B - N/C</td>
</tr>
<tr>
<td></td>
<td>Pin C - Signal Pin D - N/C</td>
</tr>
<tr>
<td></td>
<td>Pin E,F -(V-) Shield at Equipment En</td>
</tr>
<tr>
<td><strong>Testing to 1 Hz 1Hz (–)2 dB relative to100 Hz response as measured with a B&amp;K 4221 LF source</strong></td>
<td></td>
</tr>
</tbody>
</table>

## ES7052H / ES4052

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Response:</strong></td>
<td>&lt;1 Hz ± 2dB to 20KHz with ES4052 Preamp</td>
</tr>
<tr>
<td><strong>Sensitivity:</strong></td>
<td>7052H Capsule -22dBV/Pa (22mV/Pa) Open Circuit typ.</td>
</tr>
<tr>
<td></td>
<td>On ES4052 Preamp (23 dB loss)</td>
</tr>
<tr>
<td></td>
<td>-45 dBV/Pa (2 mV/Pa) typ. preamp out</td>
</tr>
<tr>
<td><strong>Preamp Loss:</strong></td>
<td>-18 dB typ – measured with DM2-22 (22pF) dummy mic 12Vdc power</td>
</tr>
<tr>
<td></td>
<td>About -20 dB loss with ES7052H capsule capacitance</td>
</tr>
<tr>
<td><strong>Testing to 1 Hz 1Hz (–)2 dB relative to100 Hz response as measured with a B&amp;K 4221 LF source</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Preamp Operating Voltage:</strong></td>
<td>(+) 9 Vdc to 15 Vdc</td>
</tr>
<tr>
<td><strong>Usable Dynamic Range:</strong></td>
<td>Upper Limit (determined by preamp operating voltage)</td>
</tr>
<tr>
<td></td>
<td>12 Vdc – 150+ dBSPL microphone dependent (2 Vrms)</td>
</tr>
<tr>
<td><strong>Preamp Connector</strong></td>
<td>Cable - 7052SC supplied standard or 7052FC (flange) an option</td>
</tr>
<tr>
<td><strong>Connector Pinout:</strong></td>
<td>Pin A - (V+) Pin B - N/C</td>
</tr>
<tr>
<td></td>
<td>Pin C - Signal Pin D - N/C</td>
</tr>
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<td></td>
<td>Pin E,F -(V-) Shield at Equipment En</td>
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## MODIFICATIONS / ES7052

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Capsule “H” Grid Holes in place of slotted</strong></td>
<td></td>
</tr>
<tr>
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<tr>
<td><strong>Z in resistor 5000 Megohms</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Shunt capacitor 150pF (acts as attenuator)</strong></td>
<td></td>
</tr>
</tbody>
</table>