USE OF MODEL 377B26

Model 377B26 is comprised of a 1/4 in (6 mm) prepolarized microphone and preamplifier within a protective housing that incorporates an impedance tube to minimize reflections and ensure accuracy. The probe comes with 20 mm, 40 mm, 80 mm and 160 mm stainless steel tips; each acting as a low pass filter. The shorter tips will have the highest frequency capability. The longer tips allow for temperatures up to 800 ºC. Also included are a heat sink and a flexible probe tip. With a high dynamic range capability (164 dB), in combination with high temperature capability, the 377B26 is an excellent choice for exhaust testing.

POLARIZATION VOLTAGE – ICP® (0V) PREPOLARIZED

PCB® is the inventor of ICP® sensor power technology. All manufacturers of IEC 61094-4 compliant prepolarized (0V) microphones use the technology that PCB developed. Prepolarized microphones operate on 2-20 mA constant current supply and use coaxial cables resulting in significant per channel cost savings over the PCB 200V models. Other ICP® compatible sensors such as accelerometers, force, strain, and pressure sensors use the same power supplies and cables as prepolarized microphones, further reducing set-up time and initial investment costs.

TYPICAL APPLICATIONS

- Exhaust testing for Automotive & Aerospace
- Testing in confined areas
- Speaker and telephone testing
- Acoustic impedance measurements
- Musical instrument analysis
- Leak detection in industrial settings

STANDARDS COMPLIANCE

- Calibration reference microphone traceable to NIST, PTB or DFM National Labs
- PCB calibration service accredited to ISO 17025, ANSI-Z540.3
SUPPLIED ACCESSORIES

- **012A10** - coaxial cable, 10-ft, BNC to BNC plug
- **51606-02** – heat sink, probe removal tool
- **51607-01** – calibration adapter for metal probe
- **51607-02** – calibration adapter for flexible probe
- **53434-01** – 20 mm probe tip
- **53434-02** – 40 mm probe tip
- **53434-03** – 80 mm probe tip
- **53434-04** – 160 mm probe tip
- **54073-01** – cleaning tube
- **55454-01** – flexible tubing
- **55455-01** – flexible probe tip
- **56508-01** – calibration coupler
- **ACS-42** – microphone system calibration

### 377826 HIGH TEMPERATURE PRESSURE PROBE MICROPHONE SYSTEM

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Microphone Diameter (in mm)</td>
<td>1/4 (6)</td>
</tr>
<tr>
<td>Sensitivity at 250 Hz (± 3 dB)</td>
<td>mV/Pa (dB re 1 V/Pa)</td>
</tr>
<tr>
<td>Frequency range 20 mm tip (± 3 dB)</td>
<td>Hz</td>
</tr>
<tr>
<td>Distortion Limit (3% distortion)</td>
<td>dB</td>
</tr>
<tr>
<td>Cartridge Thermal Noise</td>
<td>dB(A)</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

- Operating Temperature Range (40, 80 and 160 mm Probe Tip): °F (-40 to +1472 to +800)
- Operating Temperature Range (20 mm Probe Tip): °F (-40 to +752 to +400)

**Electrical Specifications**

- Polarization Voltage: V 0

**Physical Specifications**

- Size (Diameter x Length): in (mm) 0.50 x 4.4 (12.7 - 111)
- Weight: oz (gm) 1.9 (55)
- Metal Probe Tip Diameter: in (mm) 0.05 (1.2)
- Mating Cable Connectors: Coaxial BNC

*All specifications typical unless otherwise noted.

Pressure response as tested with different probe tip lengths.