



MODEL 377B26

HIGH TEMPERATURE PROBE MICROPHONE SYSTEM

- Temperature: -40 to +800°C
- Polarization: prepolarized (0V)
- Small form factor

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



USE OF MODEL 377B26

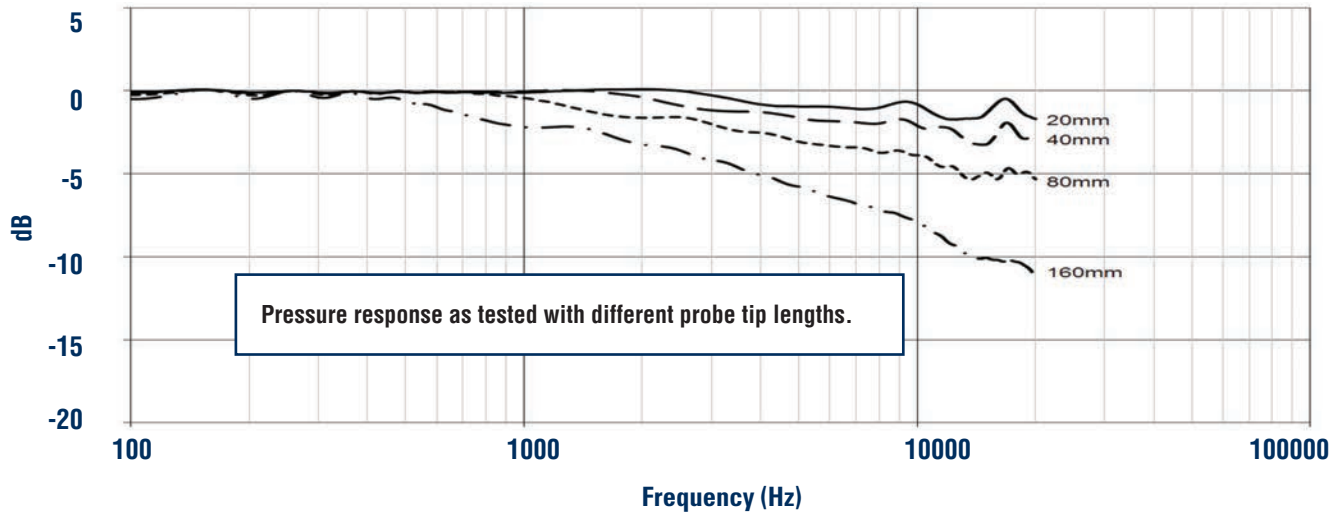
Model 377B26 is comprised of a 1/4 in (6 mm) prepolarized microphone and preamplifier within a protective housing that incorporates an impedance tube to minimize reflections and ensure accuracy. The probe comes with 20 mm, 40 mm, 80 mm and 160 mm stainless steel tips; each acting as a low pass filter. The shorter tips will have the highest frequency capability. The longer tips allow for temperatures up to 800 °C. 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.

PCB® QUALITY COMMITMENT

PCB is uniquely equipped with a state of the art, CNC machining facility, allowing control over quality, pricing, and delivery. Investments in clean rooms, anechoic, and environmental test chambers, combined with our rigorous testing and aging process, ensures our products will survive in demanding environmental conditions. PCB has the industry's best 5-year warranty with a "Total Customer Satisfaction" policy.



377B26 HIGH TEMPERATURE PRESSURE PROBE MICROPHONE SYSTEM		
Nominal Microphone Diameter	in (mm)	1/4 (6)
Sensitivity at 250 Hz (± 3 dB)	mV/Pa (dB re 1 V/Pa)	2.15 (-53.35)
Frequency range 20mm tip (± 3 dB)	Hz	2 – 20,000
Distortion Limit (3% distortion)	dB	165
Cartridge Thermal Noise	dB(A)	44
Environmental Specifications		
Operating Temperature Range (40, 80 and 160 mm Probe Tip)	$^{\circ}$ F $^{\circ}$ C	-40 to +1472 (-40 to +800)
Operating Temperature Range (20 mm Probe Tip)	$^{\circ}$ F $^{\circ}$ C	-40 to +752 (-40 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

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



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PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLineSM, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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