Explosion & Blast Pressure Sensors intended for High Output Measurements

The Series 137B quartz, free-field, ICP blast pressure pencil probes from PCB Piezotronics (PCB) have been improved for durability and alignment by lowering the parts count by 40% and internal connections by 50%. The pencil probes continue to feature an extremely fast micro-second response time, with resonant frequencies to 500k Hz. The new Series 137B quartz, free-field, ICP blast pressure pencil probes are designed for a broad range of explosion, blast, and shock wave testing. Applications include measuring blast pressure in free-field or closed bunker arenas to obtain peak pressure, total impulse, shock wave and time-of-arrival measurements often used to study blast effects on structures, vehicles, and humans.

ICP technology features integral microelectronics that provides a high signal-to-noise ratio compared to silicon semiconductor sensing technologies, which require external amplification. The high-level 5 volt output signal is capable of driving long cable runs hundreds of feet in length, to a safe zone for data acquisition. Sensors are frequency tailored to capture both peak pressure and total impulse calculations. For technical information, please contact Bob Metz, Product Manager, telephone 866-816-8892, e-mail: bmetz@pcb.com [1]

PCB Aerospace & Defense specializes in products and programs developed exclusively for the global aerospace, civil and military aviation, defense, homeland security and test & measurement markets. Products include space-rated high temperature and high-g shock accelerometers; space-qualified hardware; sensors and instrumentation for Health and Usage Monitoring Systems (HUMS), for UAV's, helicopters, fixed wing aircraft and ground vehicles; system electronics; combustion monitoring pressure sensors; high temperature engine vibration monitoring sensors; launch and separation shock sensors; Active Noise Cancellation products; and aircraft hydraulic pressure sensors, among others. Typical applications include vibration and fatigue testing; qualification testing; aircraft and engine ground testing, flutter and flight testing; blast pressure and hydraulic system pressure measurements; structural dynamics; engine vibration monitoring; launch and separation shock studies; pressure, wind tunnel and aerodynamic studies; aircraft and ground vehicle prognostics; and noise cancellation applications. Toll-free 1-866-816-8892; email: aerosales@pcb.com [2].

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Links:
[1] mailto:bmetz@pcb.com

[2] mailto:aerosales@pcb.com