Signal Conditioners, Cables, and Accessories

Highlights

Piezoelectric Sensor Signal Conditioning

- ICP® Sensor Power Supplies
- Alarm Relays
- Bank Switching Modules
- Battery Powered Signal Conditioners
- Display Meters
- Industrial Charge Amplifiers
- In-line Charge Converters
- In-line Electronic Filters
- Laboratory Charge Amplifiers
- Modular-style Signal Conditioners
- Peak Voltage Indicators
- Signal Converting Transmitters
- Summing Modules
- Telemetry Signal Conditioners

Additional Sensor Signal Conditioning

- DC Response Sensor Signal Conditioners
- Microphone & Preamplifier Power Supplies
- Strain Gage Signal Conditioners
- Torque Sensor Signal Conditioners

Accessories

- Installation Tools
- Mounting Hardware
- Nose Cones
- Patch Panels
- Tripods
- Windscreens

Signal Conditioners, Cables, and Accessories

PCB® provides the appropriate signal conditioning necessary for sensor excitation and to prepare measurement signals for readout, recording, analysis, or control. Available features include gain, integration, filtering, weighting, biasing, alarm relays, zero clamping, and conversion to rms or peak values. Additionally, essential cables and accessories to support a successful installation are typically available from stock for immediate delivery. Customized equipment is also available to satisfy unique requirements.

ICP® Sensor Power Supplies

— Battery or line-powered signal conditioners that provide ICP® sensor excitation and coupling of the voltage measurement signal to readout, recording, and analysis instruments. Additional features include gain, filtering, integration, and zero clamping.

Series 480
- Battery powered portability
- Up to 3 channels
- Gain of x1, x10, x100

Series 481 & 498 TEDS CE
- AC-powered
- 8 or 16 channels
- Many options available including switched output
- Can operate with charge output sensors
- Daisy-link multiple racks for up to 256 channels

Series 482C TEDS
- AC powered
- 4-channel
- Variety of gain and filtering configurations
- Can operate with charge output sensors

Model 485B36
USB Signal Conditioner
- Simplified data acquisition
- Utilizes USB port to provide 2-channels of ICP® sensor power
- Interfaces directly to laptop sound card or uses BNC breakout cable

Charge Amplifiers

— Laboratory, industrial, and in-line charge amplifiers provide the necessary impedance conversion for high-impedance, charge output piezoelectric sensors, thus permitting usability with voltage readout, recording, and analysis instruments. Additional features include gain, filtering, integration, and ground reset.

Series 421A11
- Rugged-duty industrial charge amplifiers
- DC-powered
- 1 or 3-channel configurations
- Electronic reset for machinery control applications
- Sealed aluminum enclosure

Series 422E
- In-line charge converters
- Operate with ICP® sensor signal conditioners
- Choice of many charge conversion values
- Single ended & differential styles

Series 443B
- Laboratory charge amplifiers
- AC-powered
- Ultra low noise
- Multiple filter settings
- Signal integration
- Serial communication to PC

Additional Signal Conditioners

Series 100A02
- Pressure indicator/controller
- AC or DC-powered
- Provides 24 VDC excitation
- Optional 4-20 mA output
- Optional programmable relays

Series 8159
- Force indicator/controller
- AC-powered
- Provides strain gage excitation
- ± 10 VDC & 4-20 mA outputs
- Four programmable set points

Series 8162
- DC-powered
- Provides strain gage excitation
- Strain gage signal conditioner
- Voltage & 4-20 mA outputs

Cables

— The weakest link in a measurement chain is often interconnecting cables. PCB® offers many types of cables, designed to endure various adverse operating conditions. Choices include cables with the flexibility of silicone, the resilience of Teflon®, the high-temperature capability of welded hard line, and the submergibility of molded polyurethane.

- Armored
- Coaxial
- Low-noise
- Mineral-insulated hardline
- Multi-conductor
- Submersible