

Signal Conditioners for DC Response Accelerometers

- Excitation and Signal Conditioning for Single-Ended MEMS DC Response Accelerometers
- Single and Multiple-channel Configurations
- Battery and Line-powered Styles
- Benchtop and Rack-mount Versions
- Nulling Feature Eliminates DC Offset Voltages



**Signal Conditioners for
DC Response Accelerometers**

Available in 1, 3, and 16-channel configurations

Signal conditioners for DC response accelerometers are specifically designed to provide proper excitation power for single ended MEMS or capacitive accelerometers and prepare their measurement signals for readout, recording, and data acquisition. Each unit offers a per-channel null adjustment for zeroing the DC offset voltage inherent to such accelerometers. Additional features, such as gain, filtering, rms conversion, and computer control, provide the user with flexibility to tailor a system set-up to suit particular needs.

A variety of platforms are offered, including portable, benchtop style, modular style, and rack-mount style. Battery and optional DC-powered units offer ideal solutions for in-vehicle applications or remote testing requirements where AC power may be unavailable.

As with all PCB® instrumentation, this equipment is complemented with toll-free applications assistance, 24-hour customer service, and is backed by a no-risk policy that guarantees satisfaction or your money refunded.

**Model 478A01 Single-channel, Battery-powered Capacitive Sensor Signal Conditioner**

- Unity gain
- DC offset null adjustment
- Battery powered for portability
- "Power On" and "Low Battery" indicators
- 4-pin input connector, BNC output connector

**Model 478A01****Model 478B05 Three-channel Capacitive Sensor Signal Conditioner**

- Unity gain
- DC offset null adjustment for each channel
- Line powered (100 to 240 VAC) via supplied AC to DC power adapter
- Battery powered via optional model 488B07 battery power pack
- "Power On" indicator
- 4-pin input connectors (3), BNC output connectors (3)

**Model 478B05****Model 445B01 Single-channel Modular-style Capacitive Sensor Signal Conditioner**

- Selectable gain x1, x10, x100
- DC offset null adjustment
- Line powered (100 to 240 VAC)
- "Power On" indicator
- 4-pin input connector, BNC output connector
- Two-slot modular chassis with input card and power supply card
- Expandable to multiple channels with larger chassis

**Model 445B01****16-channel Rack-mount Capacitive Sensor Signal Conditioners**

- Unity gain
- DC offset null adjustment
- Line powered (100 to 240 VAC)
- "Power On" and "Overload" indicators
- 4-pin input connectors (16), BNC output connectors (16)

**Model 478A16**

Basic 16-channel unit with fixed features

- DC offset null adjustment
- Line powered (100 to 240 VAC)
- "Power On" and "Overload" indicators
- 4-pin input connectors (16), BNC output connectors (16)
- Keypad control with dot-matrix LCD display

**Model 478A17**

Configurable 16-channel unit with additional optional features



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ISO 9001 CERTIFIED

A2LA ACCREDITED to ISO 17025

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The Electronics Division of PCB® Piezotronics, Inc. specializes in the development, application, and support of signal conditioners, cables, and accessories for a wide variety of sensor interfacing requirements. This product focus, coupled with the strengths and resources of PCB, permits the Electronics Division to offer exceptional customer service, 24-hour technical assistance, and a **Total Customer Satisfaction** guarantee.

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