

Four-channel Multi-purpose Signal Conditioners

For ICP®, TEDS, and Charge Output Piezoelectric Sensors

- Provides Sensor Excitation, Signal Gain, and Filtering
- Powers ICP® Sensors and In-line ICP® Charge Converters
- Directly Compatible with Charge Output Piezoelectric Sensors
- Also Suitable for Conditioning Any Voltage Input Signals
- TEDS Sensor Support
- Menu-driven Dot Matrix Display
- Keypad, RS-232, and Ethernet Control

These four-channel, benchtop signal conditioners are feature packed and cost effective. They offer low noise operation, simplicity of use, and compatibility with a wide range of sensor types.



**Series 482C
Four-channel Multi-purpose
Signal Conditioners**

Two standard versions are highlighted. Both offer ICP® sensor excitation, incremental gain of x0.1 to x200, and computer control. The advanced unit adds built-in charge converters for connection to charge output sensors, low-pass filters, and TEDS sensor support. Both versions may also be used to condition voltage signals from alternative sensor types.

The units are DC powered, however, they are supplied with a universal voltage, AC power adaptor. Optional hardware is available for rack mounting.

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.



Specifications

Model	482C16	482C54
Performance		
Channels	4	4
Input Sensor Type	ICP®, Voltage	ICP®, Voltage, Charge
Voltage Gain	x0.1 to x200	x0.1 to x200
Voltage Gain Increment	0.1	0.1
Charge Conversion (selectable)	N/A	0.1, 1.0, 10.0 mV/pC
Frequency Range (gain <100)	0.05 to 100k Hz	0.05 to 100k Hz
Frequency Range (gain 100)	0.05 to 75k Hz	0.05 to 75k Hz
Low Pass Filter (-3 dB)	N/A	10 kHz ^[1]
TEDS Sensor Support	no ^[2]	yes

Environmental		
Temperature Range	+32 to +120 °F 0 to +50 °C	+32 to +120 °F 0 to +50 °C
Power Required ^[3]	+9 to +18 VDC	+9 to +18 VDC

Electrical		
Sensor Excitation	+24 VDC	+24 VDC
Excitation Current	0 to 20 mA	0 to 20 mA
User Interface	Keypad	Keypad
Computer Control	RS-232	RS-232 ^[4]
Cross Talk (max)	-72 dB	-72 dB
LED Fault Monitor	Open/Short/Overload	Open/Short/Overload

Physical		
Input Power Connector	6-socket mini DIN	6-socket mini DIN
Sensor Input Connectors	BNC	BNC
Signal Output Connectors	BNC	BNC
Size (h x w x d)	3.2 x 8.0 x 5.9 in	3.2 x 8.0 x 5.9 in
	8.1 x 20 x 15 cm	8.1 x 20 x 15 cm
Weight	1.95 lb (890 gm)	1.95 lb (890 gm)

- Notes**
- [1] Other filter values are available, contact factory
 - [2] See additional Model 482C26 below for TEDS sensor support
 - [3] Universal AC power adaptor is provided as a supplied accessory (Model 488A14)
 - [4] See additional Model 482C64 below for Ethernet control

Additional Models

Model 482C26 is identical to Model 482C16 with added TEDS sensor support

Model 482C64 is identical to Model 482C54 with added Ethernet control

CE These products conform to applicable European Directives for CE marking.

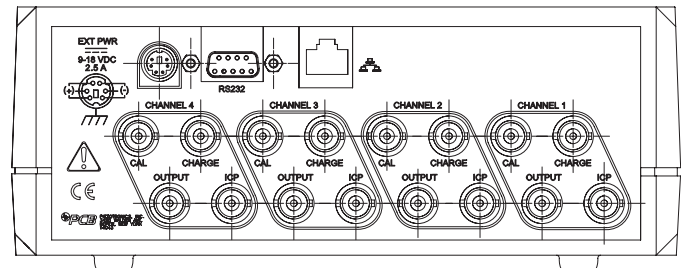
Visit www.pcb.com to locate your nearest sales office

Basic Unit - Model 482C16

- For ICP® sensors
- Also accepts voltage input signals
- Four independent channels
- Provides ICP® sensor excitation
- Incremental gain from x0.1 to x200
- Menu-driven, keypad control
- RS-232 computer control (USB adaptable)
- LED fault indicators for Open, Short, and Overload
- Optional, plug-in, low-pass filters
- Includes software on disc for computer control

Advanced Unit - Model 482C54

- For ICP®, TEDS, and Charge output sensors
- Also accepts voltage input signals
- Four independent channels
- Provides ICP® sensor excitation
- Built-in charge converters
- Incremental gain from x0.1 to x200
- Menu-driven, keypad control
- RS-232 computer control (USB adaptable)
- LED fault indicators for Open, Short, and Overload
- Optional, plug-in, low-pass filters (10 kHz standard)
- TEDS Sensor Support
- Charge Calibration Input
- Includes software on disc for computer control



Typical Rear Panel

ISO 9001:2000 Certified

A2LA Accredited to ISO 17025

AS9100:2004 Certified

PCB Piezotronics, Inc. manufactures accelerometers, force sensors, load cells, microphones, pressure transducers and transmitters, strain sensors, torque sensors, vibration sensors, signal conditioners, cables, and accessories. This instrumentation is used for test, measurement, monitoring, and feedback control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, and OEM applications. PCB Piezotronics offers exceptional customer service, 24-hour technical assistance, and a Total Customer Satisfaction guarantee.

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