

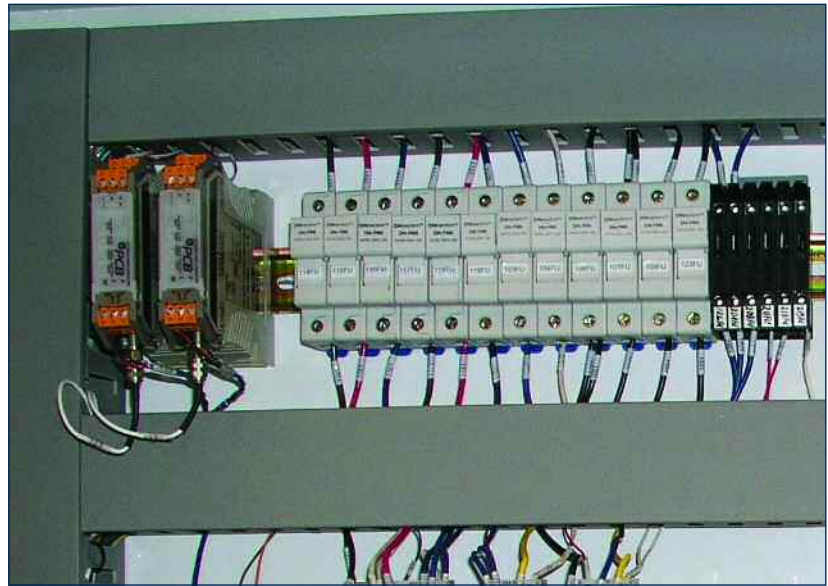


ICP[®] Sensor Signal Conditioner

For Process Monitoring, Quality Assurance, & Product Testing

Highlights

- Delivers excitation power for ICP[®] sensors
- Provides peak hold and analog output signals
- Remote reset feature synchronizes with machine cycles
- Offers AC or DC signal coupling and choice of 8 gain settings
- DIN rail mounting

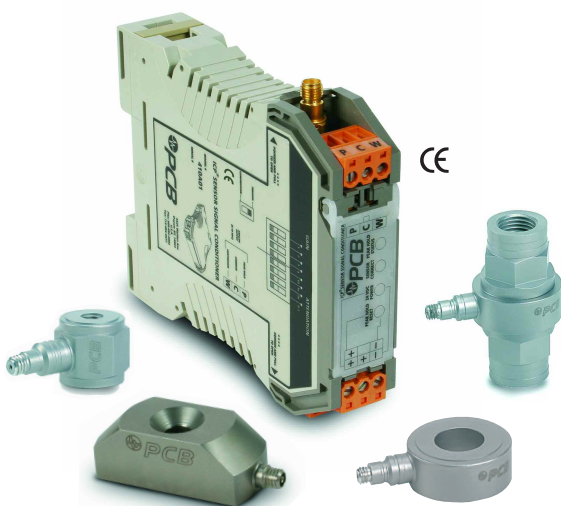


Model 410B01 is ideal for use with ICP[®] force sensors on end-of-line process test machines.

The Model 410B01 signal conditioner from PCB Piezotronics is designed for operation with Integrated Circuit Piezoelectric (ICP[®]) force or strain sensors and is ideally suited for monitoring forces experienced during manufacturing, assembly, on-line processes, quality assurance, or end-of-line product testing. With its long discharge time constant and high frequency response, both quasi-static and dynamic measurements up to 10 kHz are possible.

The unit synchronizes with machine cycles through a reset feature while analog and peak hold outputs allow for real-time monitoring with machine control devices. The DIN rail mounting offers convenient installation into protective enclosures to withstand harsh, industrial environments.

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.



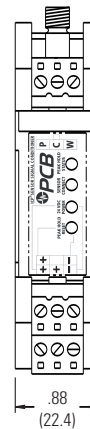
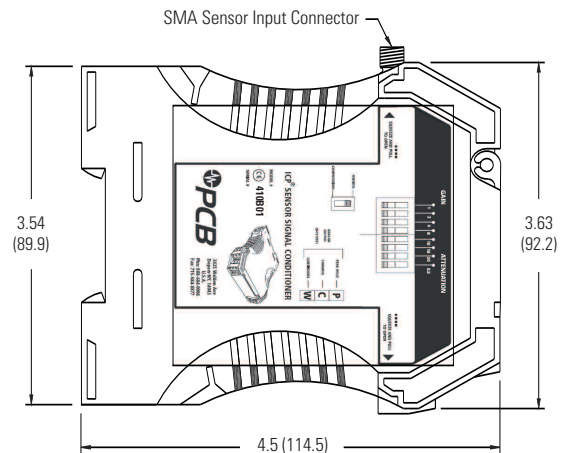
Model 410B01

DIN Rail Mount ICP[®] Sensor Signal Conditioner
(pictured here with various force & strain sensors)

MODEL 410B01 ICP® SENSOR SIGNAL CONDITIONER



MODEL 410B01		
Performance	English	SI
Channels	1	
Output Voltage (Instantaneous)	± 10	
Output Voltage (Peak)	0 to 10 V	
High Frequency Response	10 kHz	
Low Frequency Response, AC coupled (-5 %)	0.5 Hz	
Low Frequency Response, DC coupled	0 Hz ^[1]	
Voltage Gain (Incremental Steps)	x0.5, x1, x2, x4, x8, x10, x16, x20	
Autozero Accuracy	± 35 mVDC	
Environmental		
Temperature Range (Operating)	+60 to +110 °F	+15 to +45 °C
Electrical		
Power Required (± 10%)	24 VDC	
Current Draw	100 mA	
Broadband Electrical Noise (1 Hz to 10 kHz)	20 µV rms	
Peak Hold Reset	Optically Isolated	
Discharge Time Constant (AC coupled)	1 sec	
Physical		
Size (Length x Height x Width)	3.58 x 4.41 x 0.91 in	91 x 112 x 23 mm
Mounting	DIN Rail	
Electrical Connector (Sensor Input)	SMA	
Electrical Connector (Analog Output, Peak Output, Power, Ground)	Removable Screw Terminals	
Notes		
☑ This product conforms to applicable European Directives for CE marking. [1] Governed by sensor time constant.		



CONNECTION KEY:	
P	Peak Hold Output
C	Common
W	Analog Output
+	Peak Hold Reset
-	Peak Hold Reset Ground
+	24 VDC
-	Ground
SMA	ICP® Force Sensor Input



3425 Walden Avenue, Depew, NY 14043-2495 USA
Force, Torque, Load & Strain toll free 888-684-0004
24-hour SensorLineSM 716-684-0001
Fax 716-684-8877 E-mail force@pcb.com
Web site www.pcb.com

AS9100:2004 CERTIFIED ISO 9001:2000 CERTIFIED A2LA ACCREDITED to ISO 17025

© 2008 PCB Group, Inc. In the interest of constant product improvement, specifications are subject to change without notice.
 PCB, ICP, and Modally Tuned are registered trademarks of PCB Group, Inc.
 SensorLine is a service mark of PCB Group, Inc. All other trademarks are properties of their respective owners.

FTQ-410B01-0408

Printed in U.S.A.

PCB® Piezotronics specializes in the development, application and support of sensors and related instrumentation, including accelerometers, microphones, impact hammers, pressure sensors; force, torque, load and strain sensors; and related signal conditioning, for measurement of shock and vibration; acoustics; pressure; force, torque, load and strain, utilizing ICP®, piezoelectric, capacitive, strain gage, variable capacitive, piezoresistive, TEDS and MEMS sensing technologies. All products are backed by our **Total Customer Satisfaction** policy, which guarantees your satisfaction or your money refunded.

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