

Model Number  
**481A01**

# ICP ® SIGNAL CONDITIONER

Revision: F  
ECN #: 24187

## ELECTRICAL

Channels  
Display: LED (red) - Bias  
LED (yellow)  
Sensor Excitation  
Fixed Gain:  
Accuracy (at 500 Hz)  
Linearity (10-50 kHz)  
Frequency Response (-5%)  
Noise (spectral): Typical  
1 Hz  
10 Hz  
100 Hz  
1 kHz  
10 kHz  
Broadband Noise 1 Hz-10 kHz (typical)  
Overload Threshold  
Output Range (w/5 kΩ load minimum)  
Output DC Offset (maximum)  
Output Impedance  
Channel Isolation (minimum)  
Power Requirements:

## UNITS

V/mA  
%  
%  
Hz  
gain  
μV/Hz  
μV/Hz  
μV/Hz  
μV/Hz  
μV/Hz  
μV  
Vpk  
V/mA  
mV  
ohms  
dB  
VAC  
A  
Hz  
°F [°C]  
%

## VALUE

16  
Open/Short  
Overload  
24 ±1/3-20  
x1 (unity)  
±1  
±1  
0.5-100,000  
x1  
2.0  
0.2  
0.2  
0.15  
0.15  
11.0  
5 (±0.1)  
10/2.0  
50  
50 (maximum)  
72  
100-240  
0.6  
47-63  
32 to 120 [0 to 50]  
85  
1  
1  
16  
IEC 320  
3.5 x 19.0 x 16.25  
[88.8 x 483 x 413]  
15.0 [6.82]

## ENVIRONMENTAL

Operating Temperature  
Relative Humidity (maximum)

## PHYSICAL

Connectors - Signal:  
Input (rear)  
Output (rear)  
Output (front)

Connector - Power  
Size (H x W x D):

Weight (maximum)



## NOTES:

- [1] Constant current factory set at 4 mA.
- [2] See PCB Declaration of Conformance PS024 for details.
- [3] Noise test, per AT-107-2 using 401A05

## SUPPLIED ACCESSORIES:

Model 017 Power Cable  
Ferrite Bead (100-2973-30)

\* Not Tested

*All specifications are at room temperature unless otherwise specified.*

ICP® is a registered trademark of PCB Group, Inc.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.

Drawn: BCS	Engineer: CMA	Sales: JPM	Approved: RJV	Spec Number:
Date: 5/2/06	Date: 5/2/06	Date: 5/9/06	Date: 5/9/06	8091



3425 Walden Avenue, Depew, NY 14043 800-828-8840 Fax (716) 684-0987 E-Mail: sales@pcb.com