

General purpose power unit and amplifier

P702B



Key features

- Amplifier gain of 1, 10, 100
- Acceleration or velocity output
- Visible overload / fault alarm
- Can be used with model CC701 for charge mode transducers
- Low noise
- Wide dynamic range
- Powered by 9V transistor batteries
- Battery test light
- Manufactured in an approved ISO 9001 facility

Certifications



Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

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Wilcoxon Sensing Technologies
An Amphenol Company

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SPECIFICATIONS

INPUT CHARACTERISTICS	
Voltage to transducer	27 VDC
Current to transducer, $\pm 20\%$	2.4 mA
Input impedance	$>1 \text{ M}\Omega$
OUTPUT CHARACTERISTICS	
Output impedance	100 Ω
Maximum output voltage	1:1 with DC decoupling
Noise, 2 Hz - 25 kHz, referred to input: Maximum, gain = 10 or 100	$<4.5 \text{ }\mu\text{V rms}$
Spectral noise, referred as input, dB relative to $1\text{V}/\sqrt{\text{Hz}}$:	
10 Hz	-149 dB
100 Hz	-154 dB
1 kHz	-154 dB
10 kHz	-154 dB
TRANSFER CHARACTERISTICS	
Gain, acceleration	1, 10, 100
Gain, velocity	1, 10, 100
Gain accuracy:	
Maximum error for acceleration mode	$\pm 0.3 \text{ dB}$
Maximum error for velocity mode	$\pm 0.5 \text{ dB}$
Frequency response, -3 dB:	
Acceleration	0.5 - 5,000 Hz
Velocity	1.0 - 20,000 Hz
Amplitude nonlinearity	$<1\%$
Total harmonic distortion	$<1\%$
POWER REQUIREMENTS	
Internal batteries	(3) 9V alkaline
Battery life	80 hours (typical)
External power, optional	24 - 30 VDC
ENVIRONMENTAL	
Temperature range	0 to $+55^\circ \text{ C}$
PHYSICAL CHARACTERISTICS	
Dimensions	3" W x $1 \frac{7}{8}$ " H x 6" D
Weight	1.25 lb
Signal input connector	BNC
Signal output connector	BNC

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Contact

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Accessories available:

NC3 Ni-Cad battery kit;
LA704B line adaptor (110V);
LA4B-220 line adaptor
(220V); CC701 series
charge converter