

Model P702B General purpose power unit and amplifier

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

Input characteristics

Voltage to transducer	27 VDC
Current to transducer, $\pm 20\%$	2.4 mA
Input impedance	>1 M Ω

Output characteristics

Output Impedance	100 Ω
Maximum output voltage	6.0 Vpk
Output mode, switchable	
Acceleration	mV/g
Velocity	mV/in/sec
Noise, 2 Hz - 25 kHz, referred to input:	
maximum, gain = 10, or 100	<4.5 μ V rms
Spectral noise, referred to as input, dB relative to 1V/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	± 0.3 dB
maximum error for velocity mode	± 0.5 dB
Frequency response, -3 dB:	
Acceleration	0.5 - 50,000 Hz
Velocity	1.0 - 20,000 Hz
Amplitude nonlinearity	<1%
Total harmonic distortion	<1%

Power requirements

Internal batteries	(3) 9 V alkaline
Battery life	80 hours typical
External power, optional	24 to 30 VDC

Environmental

Temperature range	0 to 55°C
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Physical characteristics

Weight	1.25 lb.
Dimensions	3" W x 1 $\frac{1}{8}$ " H x 6" D
Connectors:	
Signal input	BNC
Signal output	BNC

Accessories available: LA704B line adaptor; LA704B-220 line adaptor; CC701 series charge converter, NC3 Nicad kit

We reserve the right to vary the foregoing details without prior notice



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