Ultra low noise power unit/amplifier

P31

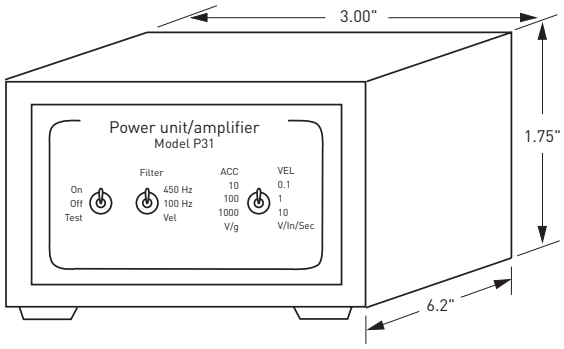
SPECIFICATIONS

INPUT CHARACTERISTICS		
Voltage to transducer		18 VDC
Current to transducer, ±20%		2.4 mA
Maximum input voltage (gain = 1)		3.5 V rms
OUTPUT CHARACTERISTICS		
Output impedance, nominal		2.5 kΩ
Recommended load impedance		>250 kΩ
Maximum output voltage		3.5 V rms
Spectral noise, 1-10 Hz, referred to input		< -140 dB
TRANSFER CHARACTERISTICS		
Gain acceleration		1, 10, 100 V/V
Output sensitivity[1]:	**Acceleration**	10, 100, 1,000 V/g
	Velocity	0.1, 1, 10 V/in/sec
Gain accuracy		±0.25 dB
Frequency response, –3 dB:		
Acceleration (450 Hz filtered)		0.05 - 450 Hz
Acceleration (100 Hz filtered)		0.05 - 100 Hz
Velocity		0.8 - 150 Hz
Amplitude nonlinearity		<1%
Total harmonic distortion		<1%
POWER REQUIREMENTS		
Internal batteries		(2) 9 V alkaline
Battery life		>50 hours
ENVIRONMENTAL		
Temperature range		0° to +55°C
Relative humidity, max		90%
PHYSICAL CHARACTERISTICS		
Weight		1.4 lb
Dimensions, W x H x D		3 x 1⅞ x 6”
Connectors:	**Signal input**	Amphenol 31-225 twinax
	Signal output	BNC

Notes: [1] When used with 731A accelerometer.
Accessories supplied: Two 9 V alkaline batteries

Key features

- Amplifies signal x1, x10, x100
- Switchable output - acceleration or velocity
- Powers 731A accelerometer
- Manufactured in ISO 9001 facility



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

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