Ultra low noise power unit/amplifier



P31

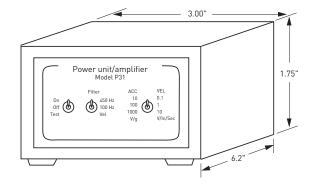
SPECIFICATIONS

51 2 511 157 1115115		
INPUT CHARACTERISTIC	CS	
Voltage to transducer		18 VDC
Current to transducer, ±20%		2.4 mA
Maximum input voltage (gain = 1)		3.5 V rms
OUTPUT CHARACTERIS	TICS	
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 CHARACTER	RISTICS	
Gain acceleration		1, 10, 100 V/V
Output sensitivity¹:	Acceleration Velocity	10, 100, 1,000 V/g 0.1, 1, 10 V/in/sec
Gain accuracy		±0.25 dB
	450 Hz filtered) 100 Hz filtered) Velocity	0.05 - 450 Hz 0.05 - 100 Hz 0.8 - 150 Hz
Amplitude nonlinearity		<1%
Total harmonic distortion		<1%
POWER REQUIREMENTS	3	
Internal batteries		(2) 9 V alkaline
Battery life		>50 hours
ENVIRONMENTAL		
Temperature range		0° to +55°C
Relative humidity, max		90%
PHYSICAL CHARACTER	ISTICS	
Weight		1.4 lb
Dimensions, W x H x D		3 x 1% x 6"
Connectors:	Signal input Signal output	Amphenol 31-225 twinax 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.