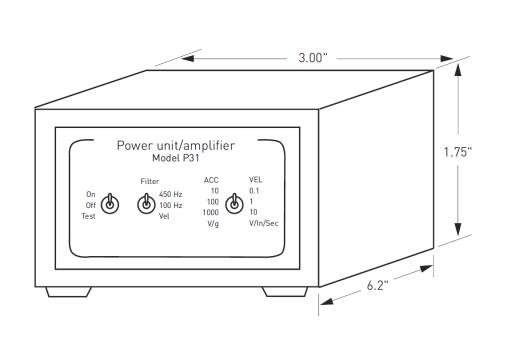


Ultra low noise power unit/amplifier P31



Key features

- Powers model 731
 seismic accelerometer
- Ultra low noise
- Amplifies signal x1, x10, x100
- Switchable output: acceleration or velocity
- Battery powered
- Wide dynamic range
- Switchable low pass
- filter, 450 Hz or 100 Hz
- Low current draw
- Battery test light

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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com

Wilcoxon Sensing Technologies An Amphenol Company

Ultra low noise power unit/amplifier

P31

SPECIFICATIONS

	TICO		Contact
INPUT CHARACTERIS		18 VDC	
Voltage to transducer Current to transducer, ±20%		2.4 mA	Wilcoxon Ser Technologies
Maximum input voltage (gain = 1)		3.5 V rms	
		5.5 V 1115	20511 Seneca I Germantown M
OUTPUT CHARACTERISTICS			Tel: +1 301 330
Output impedance, nominal Recommended load impedance		2.5 kΩ	Fax: +1 301 33
Maximum output voltage		>250 kΩ	info@wilcoxon.
Spectral noise, 1-10 Hz, referred to input		3.5 V rms	www.wilcoxon.c
		< -140 dB	
TRANSFER CHARACT	ERISTICS		
Gain acceleration		1, 10, 100 V/V	
Output sensitivity ¹	Acceleration	10, 100, 1000 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) Velocity		0.05 - 100 Hz	
		0.8 - 150 Hz	
Amplitude nonlinearity		<1%	
Total harmonic distortion		<1%	
POWER REQUIREMENTS			Accessorie
Internal batteries		(2) 9 V alkaline	• Two 9 V alk
Battery life		>50 hours	
ENVIRONMENTAL			
Temperature range		0 to 55° C	Notes: 1 Whe
Relative humidity, max		90%	731A acceler
PHYSICAL CHARACTI	ERISTICS		For multi-cha
Weight		1.4 lb	information a
Dimensions		3" W x 1‰" H x 6" D	series, 10 ch
Connectors	Signal input Signal output	Amphenol 31-225 twinax BNC	unit/amplifier



Santa at

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Meadows Parkway MD 20876, USA

0 8811 30 8873

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