



Model 731A/Model P31 system Seismic accelerometer and power amplifier

Dynamic

Acceleration sensitivity, selectable	10, 100, 1000 v/g
Velocity sensitivity, selectable.....	0.1, 1, 10 V/in/sec
Vibration range, max.	0.5 G peak
Amplitude nonlinearity.....	1%
Frequency response:	
Filter	100 hz 450 hz velocity
-10%	0.08 - 70 Hz 0.08 - 300 Hz ---
-3Db	0.05 - 100 Hz 0.05 - 450 Hz 0.8 - 150 Hz
Transverse sensitivity, max.....	1% Of axial

Electrical

Output impedance	2500 Ω
Recommended load impedance	> 250 kΩ
Maximum output voltage.....	5 v peak
Noise:	
Spectral	2 hz.....0.03 µg/Vhz
	10 Hz.....0.01 µg/Vhz
	100 Hz.....0.004 µg/Vhz
Grounding.....	case isolated
Output connector:	
Model 731A.....	2 pin, mil-c-5015
Model P31.....	BNC
Input connector (P31).....	twin axial BNC

Power requirements (P31)

Internal batteries	four 9 volt alkaline
Battery life.....	> 150 hours

Environmental

Temperature range	-10 to 65°C
Vibration limit.....	10 g peak
Shock limit	fragile
Base strain sensitivity	0.0001 g/µstrain

Physical

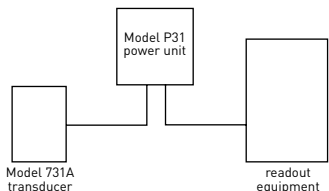
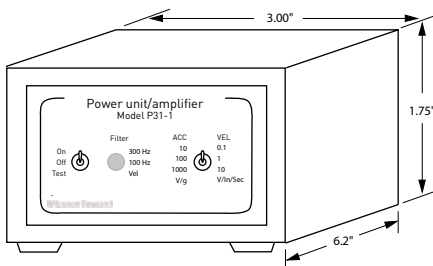
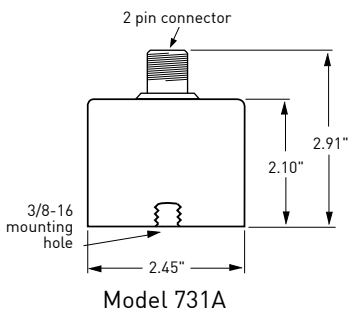
Sensing element design.....	PZT ceramic / flexure
Weight:	
Model 731A seismic accelerometer	670 grams
Model P31 power unit/amplifier	600 grams
Interconnect cable, model 731A to model P31	r6-2t-j9-10

See connections on the back.

Note: Special handling required due to sensitivity
Accessories supplied: SF7 mounting stud; calibration data (level 3)

Features

- Ultra high sensitivity
- Ultra low-noise electronics for clear signals at sub micro-g levels
- Low frequency capable
- Low pass filtered to eliminate high frequencies
- ESD protection
- Mis-wiring protection



Powering with P31 power unit

ALTHEN reserves the right to vary the foregoing details without prior notice