

Seismic accelerometer and power amplifier system

731A/P31

SPECIFICATIONS

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	- - -
-3 dB	0.05 - 100 Hz	0.05 - 450 Hz	0.8 - 150 Hz
Transverse sensitivity, max		1% of axial	
Output impedance		2500 Ω	
Recommended load impedance		> 250 kΩ	
Maximum output voltage		5 V peak	
Noise:			
Spectral	2 Hz	0.03 µg/√Hz	
	10 Hz	0.01 µg/√Hz	
	100 Hz	0.004 µg/√Hz	
Grounding		case isolated	
Output connector:	731A P31	2 pin, MIL-C-5015 BNC	
Input connector (P31)		twin axial BNC	
Power requirements (P31):			
Internal batteries		Two 9-volt alkaline	
Battery life		>75 hours	
Temperature range		-10° to +65°C	
Vibration limit		10 g peak	
Shock limit		fragile	
Base strain sensitivity		0.0001 g/µstrain	
Sensing element design		PZT ceramic / flexure	
Weight:	731A	760 grams	
	P31	600 grams	
Interconnect cable, 731A to P31		R6-2T-J9-10	

Note: Special handling required due to sensitivity.

Accessories supplied: SF7 mounting stud; calibration data (level 3)

CONNECTIONS

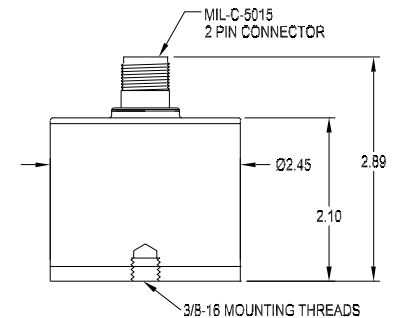
OUTPUT	Connector	Function	Cable	INPUT	Connector	Function	Cable
731A	A	power/signal	white	P31	pin	power/signal	white
	B	common	black		socket	common	black
	shell	case	shield		shell	ground	shield
P31	pin	signal	center conductor				
	shell	common	shield				

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

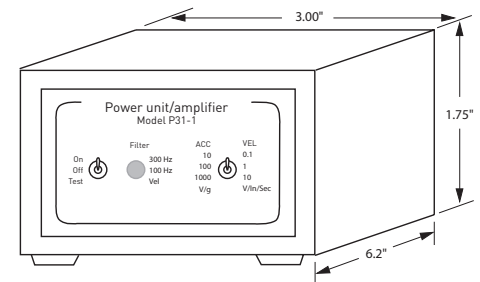


Key features

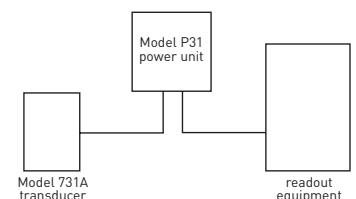
- Ultra high sensitivity
- Ultra low-noise electronics
- Manufactured in ISO 9001 facility



Model 731A



Model P31



Powering with P31 power unit