

731A/P31

Seismic accelerometer and power amplifier system

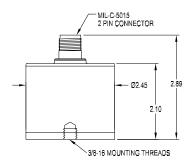
SPECIFICATIONS

Acceleration sensit	ivity, selectable	10, 100, 1000 V/g 0.1, 1, 10 V/in/sec 0.5 g peak 1%			
Velocity sensitivity,	selectable				
Vibration range, ma	X				
Amplitude nonlinea	rity				
Frequency respons Filter -10% -3 dB	e: 100 Hz 0.08 - 70 Hz 0.05 - 100 Hz	450 Hz 0.08 - 300 Hz 0.05 - 450 Hz	velocity 0.8 - 150 Hz		
Transverse sensitiv	ity, max	1% of axial			
Output impedance		2500 Ω			
Recommended load	l impedance	>250 kΩ			
Maximum output voltage		5 V peak			
Noise: Spectral	2 Hz 10 Hz 100 Hz	0.03 μg/√Hz 0.01 μg/√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 Internal batterie Battery life		Two 9-volt alkalin >75 hours	e		
Temperature range		–10° to +65°C			
Vibration limit		10 g peak			
Shock limit		fragile			
Base strain sensitiv	vity	0.0001 g/µstrain			
Sensing element de	esign	PZT ceramic / fle	xure		
Weight:	731A P31	760 grams 600 grams			
Interconnect cable,	731A to P31	R6-2T-J9-10			

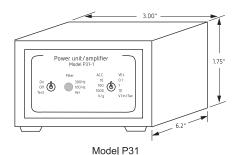


Key features

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



Model 731A

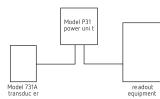


Note: Special handling required due to sensitivity. Accessories supplied: SF7 mounting stud; calibration data (level 3)

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

CONNECTIONS

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



Powering with P31 power unit

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