

# Rack mountable signal conditioners

## PR710 series

### SPECIFICATIONS

<b>Input:</b>		
Voltage to transducer		24 VDC
Current to transducer		4 mA
Maximum input voltage (gain = 1)		6.5 V rms
Output impedance		50 $\Omega$
Recommended load impedance		>50 k $\Omega$
Maximum output voltage		6.5 V rms
Noise, RTI 2.5 to 25 kHz:	<b>PR710A</b>	<20 $\mu$ V rms
	<b>PR710B</b>	<5 $\mu$ V rms
Spectral noise, input, nominal (dB/ $\sqrt$ Hz):		
	<b>2 Hz</b>	-140
	<b>10 Hz</b>	-150
	<b>100 Hz</b>	-150
Channels		10
Gain		1, 10, or 100
Gain accuracy		$\pm$ 0.2 dB
Frequency response:	<b>None, &lt; -3 dB</b>	0.05 - 45,000 Hz
	<b>Filter, -3 dB</b>	0.05 - 1,000 Hz
	<b>Velocity, -3 dB</b>	1.0 - 20,000 Hz
Amplitude nonlinearity		<1%
Total harmonic distortion		<1%
Channel separation		>60 dB
Voltage, min.		28 - 30 VDC
Current, max		500 mA
Temperature range		0° to +55°C
Relative humidity, non-condensing		5% - 95%
Usable altitude limit		2,000 meters
Dimensions (W x H x D)		19 x 5.22 x 3.7 inches
Signal input connector:	<b>PR710A</b>	isolated BNC
	<b>PR710B</b>	twin axial BNC
Signal output connector		isolated BNC

**Accessories supplied:** Power supply 47-63 Hz, 100-250 VAC

**Options:** Custom gain, filters and bench mount stand

### Key features

- PR710A powers IEPE accelerometers, PR710B powers the 731 seismic sensor
- Selectable gain of x1, x10 or x100
- Continuous fault monitoring of each channel
- Selectable filtering
- 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.