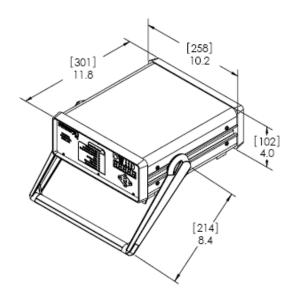
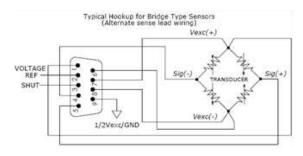




dimensions





MODEL 121 PRECISION LOW NOISE DC AMPLIFIER

SPECIFICATIONS

- 3-Channel DC Differential Amplifier
- Programmable Gain & Output Scaling
- <20µVrms Input Noise</p>
- Includes Auto-Zero Function
- DC to 200kHz Bandwidth

The **Model 121** is a state-of-the-art, 3-Channel Precision DC Amplifier designed to be used with bridge type, single-ended, and differential voltage output accelerometers, pressure transducers, and load cells. The amplifier offers an exceptionally low input noise floor of <20 μ Vrms and wide bandwidth to 200kHz, ideal for transient measurements.

The Model 121 amplifier is also shunt calibration capable and incorporates adjustable 4-pole Butterworth filter modules.

FEATURES

- ◆ AC/DC Front Panel Voltage Display
- ±12.5Vdc Dual Excitation Voltage
- 0-25Vdc Single-Ended Excitation Voltage
- ◆ ±20mV Auto-Zero Function
- ◆ 4-pole Butterworth LP Filters
- Shunt Calibration Function

APPLICATIONS

- Instrumentation Labs
- Test Stands
- Process Monitoring
- Vibration & Shock Testing

MODEL 121 PRECISION LOW NOISE DC AMPLIFIER

PERFORMANCE SPECIFICATIONS

Parameters			
INPUT SPECIFICATIONS			
Input Range	Differential ±12Vdc or peak Vac		
Input Connector	9-pin D-sub connector for each of the 3 channels		
Input Impedance	>1 Megohm minimum		
Common Mode Input Range	±12Vdc or peak Vac		
Autozero Adjustment Range	The greater of ±100mVdc or ±10/gain		
Autozero Accuracy	Within ±20mV , user actuate/de-actuate		
OUTPUT SPECIFICATIONS			
AC/DC Voltage	Single ended, short circuit protected. User selectable for DC or AC measurement.		
Output Connector	BNC connector for each channel for each of the 3 channels		
Output Impedance	0.2 ohms max		
Linear Output	±10Vpeak		
Current Output	20mA max		
Excitation Voltage	±12.5 Vdc dual or 0 to 25 Vdc single-ended, user selectable for each channel		
Excitation Voltage Accuracy	The greater of ±1% or 50 mVdc		
Excitation Current	30mA maximum per channel, short circuit protected		
Shunt Calibration	User configurable to shunt any of the four legs of bridge. 150 kohm default value for shunt.		
TRANSFER CHARACTERISTICS			
Gain Range	0 to 9999		
Accuracy	±0.5% of full scale		
Linearity	±0.1% of full scale		
Noise	20uVrms RTI plus 1mVrms RTO		
Frequency Response	DC to 200 kHz		
Low Pass Output Filter	User-installed plug in module (optional), enable/disable switch, two pole		
Isolation	Channel to channel signal grounds not isolated, signal ground to case ground isolated		
POWER REQUIREMENTS			
Voltage	110/220V~ 50/60 Hz, auto-detects		
PHYSICAL CHARACTERISTICS			
THISICAL CHARACTERISTICS			
Weight (w/o power cord)	8.2 lbs (3.7 kg)		
	8.2 lbs (3.7 kg) Aluminum		
Weight (w/o power cord)			
Weight (w/o power cord) Case Material	Aluminum		
Weight (w/o power cord) Case Material Dimensions (H x W x L)	Aluminum		
Weight (w/o power cord) Case Material Dimensions (H x W x L) ENVIRONMENTAL	Aluminum 4.0 x 10.2 x 11.8 inches (102 x 258 x 301 mm)		

ORDERING INFO

DESCRIPTION

PART NUMBER +POWER CORD OPTION

DC Amplifier	121-U	NEMA 5-15 USA 3 pin Plug (120V, 60Hz)
DC Amplifier	121-E	CEE 7/16 Europlug (220V, 50Hz)
DC Amplifier	121-A	AS-3112 China, Australasia (220V, 50HZ)

Optional Accessories

Filter Module, 20Hz, 4-Pole Low Pass	AC-A04542-020
Filter Module, 100Hz, 4-Pole Low Pass	AC-A04542-100
Filter Module, 1kHz, 4-Pole Low Pass	AC-A04542-1K0
Filter Module, 10kHz, 4-Pole Low Pass	AC-A04542-10K
Filter Module, 20kHz, 4-Pole Low Pass	AC-A04542-20K
DB9 Connector	AC-G03253





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