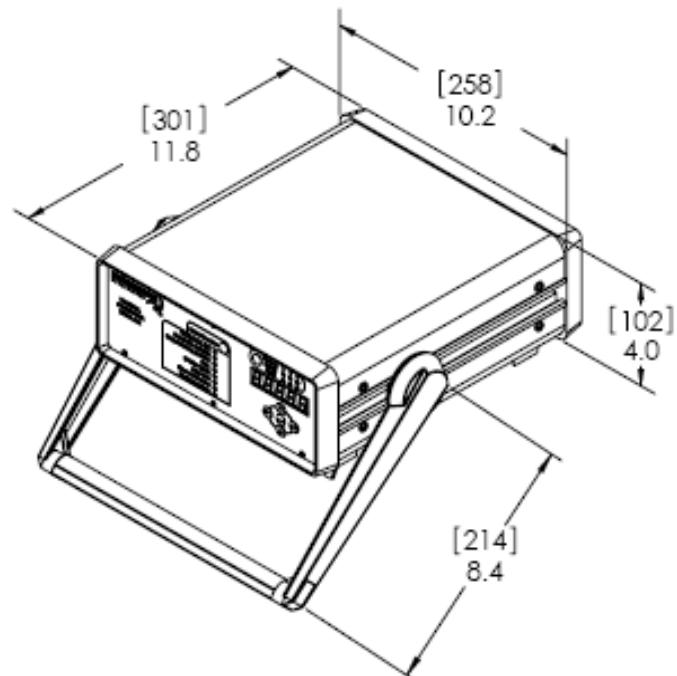


Model 121 Precision Low Noise DC Amplifier

3-Channel DC Differential Amplifier
Programmable Gain & Output Scaling
<20 μ Vrms Input Noise
Includes Auto-Zero Function
DC to 200kHz Bandwidth



dimensions

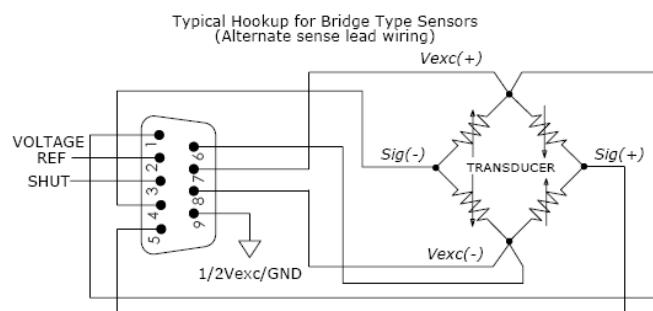


FEATURES

- AC/DC Front Panel Voltage Display
- $\pm 12.5\text{Vdc}$ Dual Excitation Voltage
- 0-25Vdc Single-Ended Excitation Voltage
- $\pm 20\text{mV}$ 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 ± 12 Vdc 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	± 12 Vdc or peak Vac
Autozero Adjustment Range	The greater of ± 100 mVdc or ± 10 /gain
Autozero Accuracy	Within ± 20 mV, user actuate/unactuate
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	± 10 Vpeak
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 $\pm 1\%$ 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	$\pm 0.5\%$ of full scale
Linearity	$\pm 0.1\%$ 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	
Weight (w/o power cord)	8.2 lbs (3.7 kg)
Case Material	Aluminum
Dimensions (H x W x L)	4.0 x 10.2 x 11.8 inches (102 x 258 x 301 mm)
ENVIRONMENTAL	
Temperature Range, Operating	+32°F to +122°F (0°C to +50°C)
Temperature Range, Storage	-40°F to +185°F (-40°C to +85°C)
Humidity	<90%

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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