



MODEL 160 IEPE POWER SUPPLY

- Single Channel IEPE Power Supply
- x1 and x10 Selectable Gain
- Small Rugged Package
- Simple and User Friendly

The Model 160 is a small and portable single channel IEPE power supply for piezo-electric sensors. The power supply features a 4mA constant current excitation with a selectable x1 and x10 gain switch. The low noise model 160 power supply is ideal for laboratory testing and has a wide bandwidth from 1-20kHz. An LED status indicator is included which will notify operator of normal, open or short circuit.

FEATURES

- Interface with IEPE Sensors
- ±10 Volts Linear Output
- x1 and x10 Gain Settings
- Wide Bandwidth to 20kHz
- 4 mA Current Excitation
- Status LED Indicator
- BNC Input and Output Connectors

APPLICATIONS

- Piezo-electric Sensor Excitation
- Laboratory Shock and Vibration Testing
- Instrumentation Labs
- Testing of IEPE Accelerometer, Force and Pressure Sensors

PERFORMANCE SPECIFICATIONS

All values are typical at $\pm 24^{\circ}$ C and 4mA constant current excitation unless otherwise stated. TE reserves the right to update and change these specifications without notice.

PARAMETERS

DYNAMIC		
Input Type	Single-ended, constant current two-wire system	
Output Type	Single-ended, one side connected to circuit ground	
User Selectable Gain Settings	x1, x10	
Bandwidth (±5%)	1 to 20kHz	
Noise (Vrms)	45 ⁻⁶ RTI or 0.0001 RTO	
Amplitude Linearity (%)	1.0	

ELECTRICAL

Power Supply	12 Vdc at 50 mA typical
Excitation Current (mA)	4
Compliance Voltage (Vdc)	24
Linear Output Voltage (p-p)	10 Volts
Gain Accuracy (%)	1.5
Input Impedance (kΩ)	>20
Output Impedance (Ω)	<10
Total Harmonic Distortion (%FS)	<1

ENVIRONMENTAL

Operating Temperature (°C)	0 to +85
Storage Temperature (°C)	0 to +85
Environmental Protection	IP50, Silicone Potted
Vibration (g)	20 pk from 50Hz to 2000Hz
Shock (g)	2000 pk with 3.6ms Haversine pulse

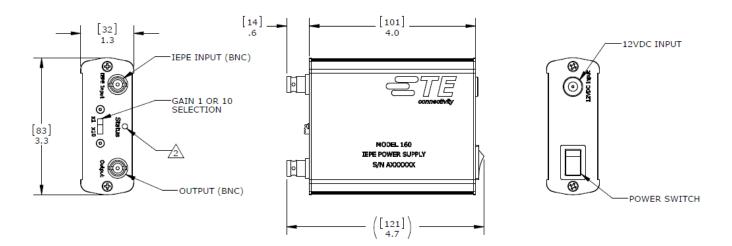
PHYSICAL

Case Material	Anodized Aluminum
Electrical Connector, Input	BNC Connector
Electrical Connector, Output	BNC Connector
Weight (grams)	164

SUPPLIED ACCESSORIES

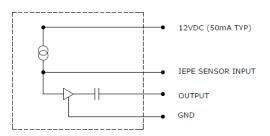
90 to 264 Vac to 12 Vdc Power Supply Adaptor

DIMENSIONS



SCHEMATIC

SINGLE CHANNEL IEPE POWER SUPPLY



ORDERING INFORMATION



160

NORTH AMERICA Tel +1 800 522 6752 customercare.ando@te.com EUROPE Tel +31 73 624 6999 customercare.glwy@te.com ASIA Tel +86 0400 820 6015 customercare.chdu@te.com

te.com/sensorsolutions

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