

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 $\pm 24^{\circ}\text{C}$ 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 ($\pm 5\%$)	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 (k Ω)	>20
Output Impedance (Ω)	<10
Total Harmonic Distortion (%FS)	<1

ENVIRONMENTAL

Operating Temperature ($^{\circ}\text{C}$)	0 to +85
Storage Temperature ($^{\circ}\text{C}$)	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

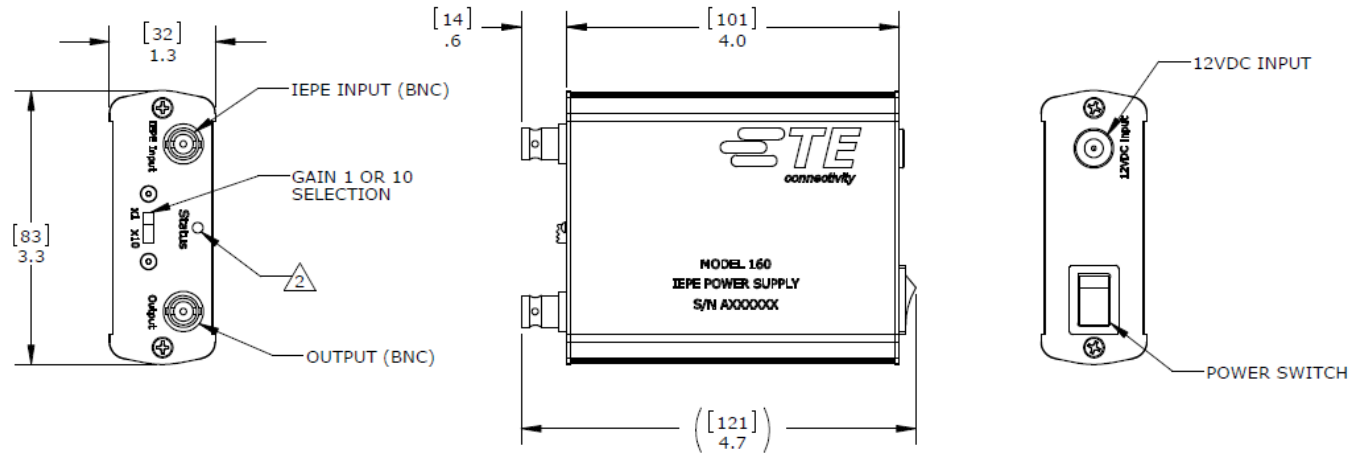
Case Material	Anodized Aluminum
Electrical Connector, Input	BNC Connector
Electrical Connector, Output	BNC Connector
Weight (grams)	164

SUPPLIED ACCESSORIES

90 to 264 Vac to 12 Vdc Power Supply Adaptor

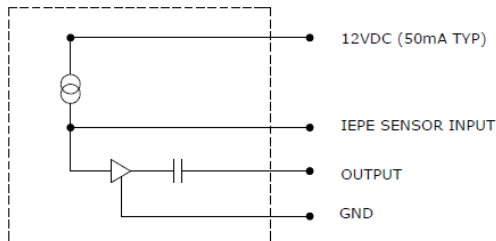
MODEL 160 IEPE POWER SUPPLY

DIMENSIONS



SCHEMATIC

SINGLE CHANNEL IEPE POWER SUPPLY



ORDERING INFORMATION

Part Number

160



株式会社 クローネ

■ カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。
■ 製品のデザイン、仕様等などは、予告なく変更する場合があります。

本 社：〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431 / FAX: (03) 3695-5698
大阪支店：〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL: (06) 6361-4831 / FAX: (06) 6361-9360
e-mail: sales-tokyo@krone.co.jp URL: <https://www.krone.co.jp>

te.com/sensorsolutions

BetaCurve, TE Connectivity, TE, and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, products and/or company names referred to herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2018 TE Connectivity Ltd. family of companies All Rights Reserved.