

Transducer Power Supply

The KCF Transducer Power Supply is a battery powered power supply and signal conditioner for charge output devices such as accelerometers, load cells, and impact hammers. It is simple to use, inexpensive, low-noise, small and lightweight. The device is for a single channel, but is ergonomically designed so that multiple Transducer Power Supplies can be stacked for multiple-channel experiments.



Applications

- Extended duration experiments

Features

- Tri-State Power Switch
- Power supply: 9V Battery
- Overload switch if measurement is > 10 dB out of range
- LED display

Specifications

Size:	100 x 60 x 25 mm
Power supplied to transducer:	1-10mA, +24V
Gain:	X1
Frequency range:	0.05 Hz – 100 kHz
Transducer output voltage variance:	< +/- 1%
Output voltage range:	+/- 5V
Output noise:	$U_{rms} < 1 \text{ mV}$
Output Zero Noise:	< +/- 10 mV
Input/Output connection:	BNC Standard
Internal battery:	9 VDC Laminated Cell
Battery life:	>20 hours
Time for automatic shut-off:	30 minutes

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