

DC amplifier Model 136



The rear panel contains (on a per-channel basis) a BNC output connector, a 9-pin "D" input connector, the RS-232 connector (RS-232 communication is no longer supported), and the input power connector. Three model 136 units may be configured in a 19-inch rack mount adapter. The standard unit is powered by 90-264 VAC, 50/60 Hz. The stopping is powered by 9 to 18 VDC, making it ideal for portable use or for



Auto-zero and shunt

- Gain range 0 to 1000
- Four selectable excitation
- 12 VDC power option
- Default 4-pole Butterworth
- Optional low-pass filter module with different corner frequencies

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Specifications

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration of National Institute of Standards and Technology (NIST), is supplied.

Inputs

Input impedance Input range: differential Common mode Common mode rejection Input imbalance adjustment

Outputs

AC/DC voltage Output impedance Linear output Current output Output DC bias stability temp Output DC bias stability time Excitation voltage Excitation voltage accuracy Excitation current Noise and ripple

Transfer characteristics

Gain Range Resolution

Accuracy Linearity Stability Noise

Broadband frequency response Filter characteristics/type Corner frequency (-3 dB) Crosstalk between channels

Power requirement Voltage Power dissipation Isolation

Physical characteristics Dimensions Weight Case 1 Meg Ohm minimum

0 to ± 10 VDC or peak VAC, 9 pin "D" connector for each bridge sensor ± 10 VDC or pk VAC, inclusive of signal 50 Vpk without damage 70 dB minimum, 200 Ω or less input imbalance, DC to 60 kHz ± 100 mVDC, 100 \leq gain ≤ 1000 ± 1 VDC, 10 \leq gain ≤ 100 ± 10 VDC, 0 \leq gain ≤ 10

Single-ended, short circuit protected 10 ohm typical 10 V pk 10 mA, minimum ±5 µV/°C RTI or ±0.1 mV/°C RTO ±20 µV RTI or ±5 mV RTO, whicheven's greater, for 24 hours, after a 1 hour warmup 0, 5.0, 10.0, or 15.0 VDC, front panet or computer selected; 1 selection for all 3 channels ±1% 30 mA maximum, short circuit protected 1 mV rms maximum, 10 Hz to 50 kHz, with 1 kOhm load

Programmable from 0 to 1000 $0.0025, 0 \le \text{gain} \le 10$ $0.025, 10 \le \text{gain} \le 000$ $0.25, 100 \le \text{gain} \le 1000$ $\pm 0.5\%$ of full scale maximum, DC to 1kHz, filters disabled 0.1% of full scale, best fit straight line at 1 kHz reference $\pm 0.2\%$ of full scale, 0°C to ± 50 °C $20 \ \mu V \text{ rms}$ RTI plus 1 mV rms RTO, whichever is greater, DC to 50 kHz, with a 1 kOhm source resistance unit in Non-monitoring state, 10 kHz internal lowpass filter enabled $\pm 5\%$, DC to 50 kHz, referenced to 1 kHz; -3 dB at 200 kHz 4-pole Butterworth 10 kHz $\pm 12\%$ (other corners available by changing internal module 31875: 10 Hz to 80 kHz) 80 dB RTI

Standard unit: 90-264 VAC 50 to 60 Hz; -1 option: 9-18 VDC 10 Watts typical No isolation channel to channel or signal ground to caseground

5.57" x 2.52" x 12" 4 lbs typical Black aluminum cover, medium grey plastic bezel



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Accessories

Product	Description	136
IM136	Instruction manual	Download from website
EW599	Power cord	Included
31875-1000	10 kHz, 4 pole, Butterworth lowpass filter module	Included
31875-XXXX	Lowpass filter modules (see 31875 data sheet)	Optional
31979	Rack mount kit	Optional
EHM1471	Blank panel	Optional
EHM1413	Desktop DC power supply	Optional
EHM1409	Automotive power plug (Supplied with 136-1)	Included
EJ724-U	DB9M connector kit	Optional

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Notes

1. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals pricing and turn-around time for these services as well as for quotations on our standard products.

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Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability. 082719