



Model 4830A Portable simulator

Features

- Simulates accelerometer signals
- Tachometer TTL output
- Menu-driven operation
- English and metric units
- Battery operated

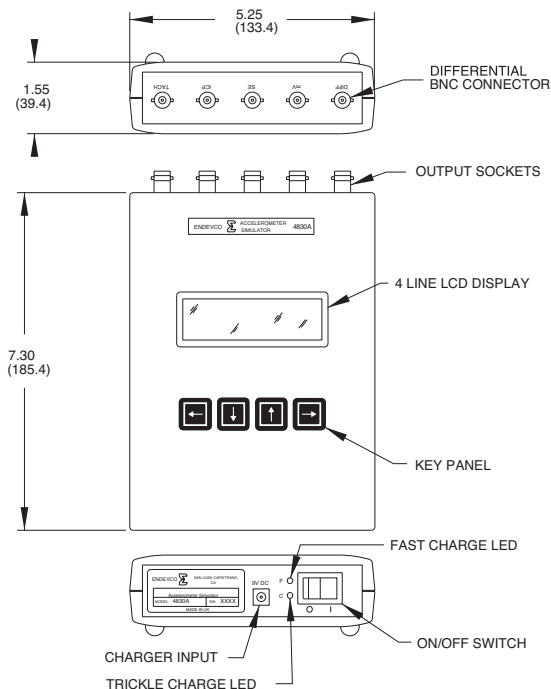


Description

The Endevco model 4830A is a battery operated instrument that is used to electronically simulate a variety of outputs from various types of transducers. A tachometer output signal is also provided, making the model 4830A a convenient and portable means of calibrating and servicing instrumentation.

The model 4830A uses a menu-driven 80-character LCD display to establish the appropriate settings. The key panel contains only four sealed switches (per IP65) marked with arrows for cursor control. In addition to the manual on/off switch, the unit can be set for automatic power shutdown. The last setup is automatically stored in nonvolatile memory. Power is supplied by internally mounted Nicad rechargeable batteries, which can be recharged with a regulated 9 Vdc source.

Output signals available include single-ended and differential charge (pC), single-ended voltage (mV), current-sinking Isotron[®] and a tachometer (TTL) output signal. The frequency range is 1 to 10 000 Hz and the output amplitude is adjustable up to 10 000 pC or mV pk. Outputs can be provided in acceleration, velocity or displacement.



STANDARD TOLERANCE
 INCHES (MILLIMETERS)
 .XX = +/- .03 (.X = +/- .8)
 .XXX = +/- .010 (.XX = +/- .25)

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MEGGITT
smart engineering for
extreme environments

Specifications

Outputs

Type	Single-ended charge (pC) Differential charge (pC) Single-ended voltage (mV) Tachometer (TTL) Isotron® - current sinking
Frequency range	1 Hz to 10 kHz ($\pm 1\%$), resolution 0.5 Hz, accuracy of setting $\pm 1\%$
Amplitude	Adjustable up to 10 000 pC or mV pk. maximum, accuracy of setting $\pm 1\%$ Acceleration, velocity is in pk units Displacement is in pk-pk
Distortion	Less than 1.5%, 10 Hz to 10 KHz, 100 to 10 000 mV or pC
Noise	Less than 2 mV or 2 pC rms on single ended outputs Less than 2 pC on differential output

Transfer characteristics

Amplitude accuracy	$\pm 1.0\%$ of setting on any range
Amplitude stability	0.03%/°F maximum change from setting, +15°F to +150°F [-10°C to +65°C]
Frequency accuracy	$\pm 1\%$
Frequency stability	$\pm 0.5\%$ maximum change from +15°F to +150°F [-10°C to +65°C]
Harmonic distortion	1% maximum

Environmental characteristics

Temperature	
Operating	+15°F to +150°F [-10°C to +65°C]
Storage	0°F to +150°F [-18°C to +65°C]
Humidity	95% R.H. maximum

Power

Battery	9 Vdc rechargeable nicad or equivalent (supplied)
Current drain	10 mA at 18V, typical

Physical characteristics

Dimensions	6.25" h x 3.75" w x 2.88" d (158.8mm x 95.3mm x 73.2mm)
Weight	1.5 lbs (0.68 kg) typical
Case	Molded plastic case
Connections	Single-ended charge - standard BNC Single-ended Voltage - standard BNC Tachometer - standard BNC Isotron (ICP) - standard BNC Differential charge - differential BNC (Twinax)
Front panel controls	On/Off toggle switch. Key panel containing 4 switches sealed to IP65. Switches marked with arrows for cursor control.
Front panel display	20 character, 4 line LCD alpha-numeric display. Lines 1, 3 & 4 give constant indication of set parameters. Second line used for editing.

Accessories

EP316	Mating connectors
Carry case	
For 4830A:	
EHM1882	Power supply 90-264 AC to 9 Vdc adapter (US 2-pin)
EHM1905	Ferrite snap-on cable filter
For 4830A-V:	
EHM1883	Power supply 220 AC to 9 Vdc adapter (UK 3-pin)
For 4830A-V1:	
EHM1884	Power supply 230 AC to 9 Vdc adapter (Euro 2-pin)

Optional accessories

EHR96	Mating connectors
EBT26	Replacement battery pack

Optional calibration service

CS500	Electronic calibration
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Notes:

1. Maintain high levels of precision and accuracy using Endevo's factory calibration services. Call Endevo's inside sales force at 800-982-6732 for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.



Continued product improvement necessitates that Meggitt reserve the right to modify these specifications without notice. Meggitt 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 Endevo synonymous with reliability.

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