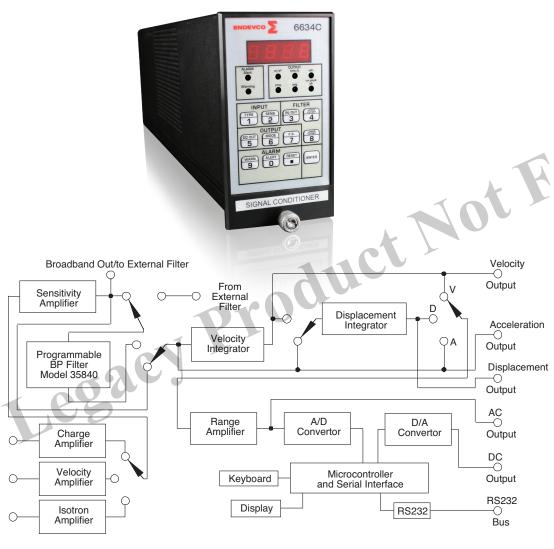
Model 6634C



Key features

- Programmable full scale and sensitivity
- Acceleration, velocity and displacement outputs
- Setups stored in non-volatile memory
- Peak hold
- Optional RS-232 computer interface
- Optional 6 pole programmable filter
- Universal power supply

The model 6634C vibration amplifier is a microprocessor-based instrument designed to condition and display vibration data from rotating machinery. The instrument accepts inputs from a single-ended, differential PE or ISOTRON® accelerometer, velocity coil, or remote charge convertor. Full scale AC and DC output ranges are programmable in user selected engineering units to represent either acceleration, velocity, or displacement. Programming of the unit is accomplished from the front panel keyboard or optional RS-232 computer interface. Up to ten different setups can be stored and recalled from the non-volatile memory. An optional 6 pole filter is available, which may be programmed from the front panel. There are two TTL compatible latched alarm outputs provided for warning and alert.



Model 6634C

Specifications

All specifications assume +75°F (+24°C) unless otherwise stated. Calibration voltage for -R units is 5Vdc and for -U units is 15Vdc.

Piezoelectric (PE) inputs Single-ended (SEPE) or differential. Accelerometer sensitivity limited to 1.5 to 150 pC/q

33 000 pC Maximum input charge

Source resistance $10\ M\Omega$ minimum to meet all specifications Source capacitance 20 nF maximum to meet all specifications RCC input VEL-COIL or RCC input. Internal jumper selectable

Constant current supply

24 V maximum, 20 V minimum. Input sensitivity limited to 15 to 150 mV/g. Compliance voltage

VEL-COIL or RCC input. Internal jumper selectable Velocity coil input Input impedance 100 k Ω . Input sensitivity limted to 15 - 1500 mV/IPS

External calibration EXT-CAL 1000 pF ±0.5% Input capacitance 10 V pk Maximum input voltage From external filter Broadband input

10 MΩ minimum Input impedance

External filter gain 1 ±1% Maximum input voltage 10 V pk Digital discrete inputs TTL compatible

Sale Sale /Alm-reset A low pulse of at least 100 ms resets both alarms, Internal pull-up included /Sys-cal A low pulse of at least 100 ms starts calibration, internal pull-up included

Outputs

All outputs are single-ended and short circuit protected. Type

Output load 10 kΩ minimum, 3000 pF maximum BB-OUT/VEL-OUT/DISP-OUT Broadband/velocity/displacement 0 to ±10 V pk minimum Linear voltage range Offset voltage 15 mV DC maximum ACCEL-OUT Acceleration output

Linear voltage range 0 to ±10 V pk minimum Offset voltage 15 mV DC maximum

AC-OUT AC output

Full scale output voltage 1.0 V pk, User selectable jumper is provided for 5.0 V pk and 10 V pk full scale

Offset voltage 10 mV DC maximum

DC output DC-OUT

Full scale output voltage 1.0 V, User selectable jumper is provided for 5.0 V and 10 V full scale

Acceleration/velocity 1.0 VDC for pk, 0.7071 VDC for rms, 0.6366 VDC for avg Displacement 1.0 VDC for pk-pk, 0.3536 VDC for rms, 0.3183 VDC for avg

Digital discrete output TTL compatible

Output level Sink 12 mA maximum at 0.7 V Source 1 mA maximum at 2.4 V

Transfer characteristics

Input sensitivities

PE Input 1.500 to 150.0 pC/g 0.15 - 15.0 pC/m/s2 Velocity coil input 15.00 to 1500 mV/ips $0.60 - 50 \, \text{mV/mm/s}$ 0.15 - 15 mV/m/s 15 to 150.0 mV/g RCC input

Model 6634C

Transfer characteristics continued

Velocity coil input

Velocity coil output 0.8 mV rms maximum
Displacement output 1.1 mV rms maximum

RCC input

Acceleration output 1.0 mV rms maximum with 250 Ω input shunt Velocity output 1.0 mV rms maximum with 250 Ω input shunt Displacement output 6.0 mV rms maximum with 250 Ω input shunt

Alarm level Programmable from 1% to 100% of full scale. 100% disables the alarm. Alarm levels are compared with

DC output representation of peak AC output.

Alarm accuracy 1% of DC output. Alarm triggering time 3 ± 0.5 seconds

Programmable filter (internal jumper configurable)

Low pass range 50 Hz - 5 KHz or 100 Hz - 10KHz

High pass range 5 Hz - 500 Hz

Environmental

Temperature range Operating 40°F to 125°F (5°C to 52°C) Storage -40°F to 185°F (-40°C to 85°C)

2501agc 40 1 to 103

Humidity 95% R.H.

Power

 Voltages
 95 - 260 VAC 50-400 Hz

 Current
 No options installed

 150 mA typical at 105-125 VAC

150 mA typical at 105-125 VAC 75 mA at 210-240 VAC 150 mA typical at 90-110 VAC

Physical characteristics

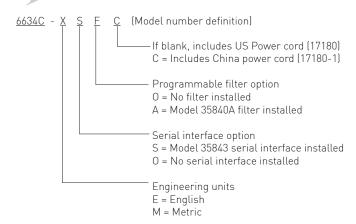
Dimensions Weight Connectors 4.88" H x 2.71" W x 15.81" D (12.4 cm x 6.9 cm x 40.2 cm)

4 lbs (1.8 kg) with no options installed.

Piezoelectric input

RCC input/velocity coil External cal Discrete inputs AC power Differential BNC Single-ended BNC Differential BNC Single-ended BNC 25 pin "D" Jones type

Ordering information



Model 6634C

Accessories

Product	Description	6634C
17180	Power Cord (17180-1 for China power cord)	Included
EP316	Twin BNC connector (2 each)	Included
EJ1167-U	25 pin "D" connector (1 each)	Included
4948	19" rack (1 per 6 each 6634C)	Optional
35840A	Programmable filter	Optional
35843	RS-232 serial interface	Optional
16678	Blank panel for 4948 rack	Optional

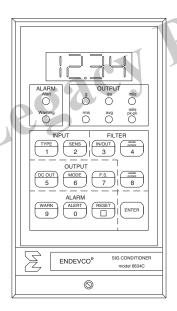
Contact

ENDEVCO

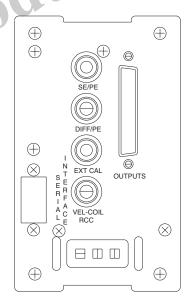
www.endevco.com Tel: +1 (866) ENDEVCO [+1 (866) 363-3826]

Notes

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.







6634C REAR PANEL