

Given the data sheet:

ENDEVCO MODEL 2220D	Piezoelectric Accelerometer
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 data, traceable to National Institute of Standards and Technology (NIST), is supplied.	
DYNAMIC CHARACTERISTICS	Units
CHARGE SENSITIVITY	
TYPICAL	pC/g 3.0
MINIMUM	pC/g 2.0
FREQUENCY RESPONSE	See Typical Amplitude Response
RESONANCE FREQUENCY	kHz 50
AMPLITUDE RESPONSE [1]	Hz 1 to 10 000
±5%	
TEMPERATURE RESPONSE	See Typical Curve
TRANSVERSE SENSITIVITY	% ≤ 5
AMPLITUDE LINEARITY [2]	% 1
Per 500 g, 0 to 5000 g	

Explanation of Amplitude Linearity error:

It means that from 0 to 5000g You have 1% of error per each 500g.

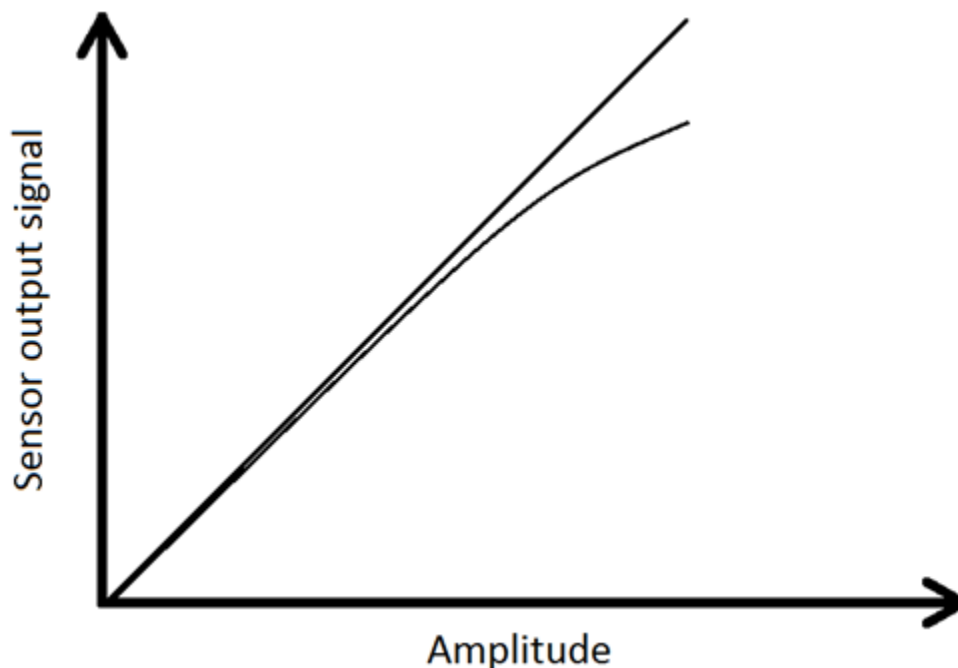
So measurement of 1000g has +/-2% of amplitude non-linearity error,

1500g +/-3%

2000g +/-4%

And so on up to 5000g's.

Accelerometer's indication non-linearity describes deviation between real acceleration and the transducer response to it



In other words the sensitivity at high accelerations amplitudes may be a bit lower than at low acceleration amplitudes.