



THE UNIVERSITY OF NORTH CAROLINA  
AT  
CHAPEL HILL

Office of Research Administration

March 23, 1981

The University of North Carolina at Chapel Hill  
Bynum Hall 003A  
Chapel Hill, N.C. 27514

Mr. Damon Smith  
1800 Williamsburg Rd.  
Apt. 1-C  
Durham, N.C. 27707

Dear Mr. Smith:

On March 16, 1981 the University Patent Committee met and considered three inventions that you have developed for monitoring chest wall motion due to cardiac function. The committee acknowledges the notarized letter dated December 18, 1979 and January 21, 1980 from Dr. Ernest Craig with respect to your work. After inspecting your data notes and discussing the invention disclosures with you, the committee acknowledges that the developmental and conceptual work on the three inventions was done without the use of university time and facilities and The University of North Carolina at Chapel Hill claims no rights in the following inventions:

- 1.
- 2.
3. The accelerometer-EKG clip combination chest wall motion sensor which is the subject of the invention disclosure to the committee of February 16, 1981.

Sincerely yours,

George R. Holcomb

Dean for Research Administration

cc: University Patent Committee

GRH/j



# The advantages of being tiny.

At Entran we build a line of accelerometers that can best be described as tiny.

Being tiny means you don't interfere with the integrity of the system being measured.

Being tiny gives you greater handling ease in hard-to-get-at places, which adds up to more applications flexibility. And, being tiny means less mass to distort your test scale, more room for other instruments. All at no sacrifice in test data.

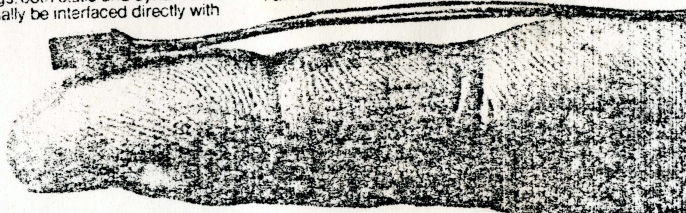
Entran accelerometers give you high output, low impedance readings, both static and dynamic. As a result they can usually be interfaced directly with

scopes, recorders and milliammeters.

Entran accelerometers come complete and ready to use. All you supply is the excitation voltage on two leads and read output in millivolts on the other two leads.

All units give you direct linear output in millivolts/g and read both static and dynamic acceleration. There's no need for charge or voltage amplifiers. Calibrations are traceable to The National Bureau of Standards.

Write Entran Devices, Inc., 10 Washington Ave., Fairfield, NJ 07006 Phone 201/227-1002, Telex 130-361

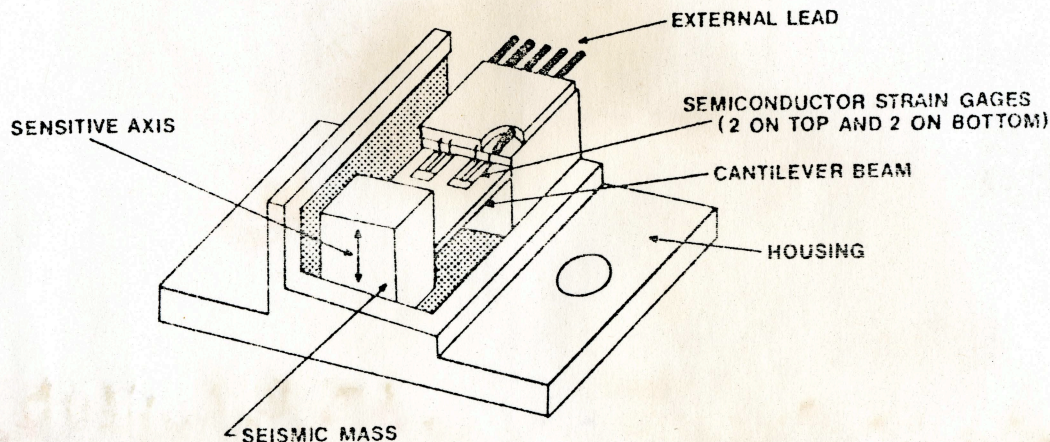


## Tiny and feather-light, EGA-125-D.

This accelerometer weighs only one half a gram. Is less than 0.006 cu. inches in volume. Yet gives you static & dynamic readings of acceleration, vibration and shock. And comes with .7 critical damping to eliminate resonance ("D" is for "damped").

Typical ranges	± 5g	± 10g	± 50g	± 100g	± 500g
Sensitivity nom	15 mV/g	12 mV/g	4 mV/g	2.5 mV/g	0.5 mV/g
Useful frequency nom	150 Hz	200 Hz	500 Hz	600 Hz	1000 Hz

Excitation: 15V, Weight: 1/2 gram without leads, Linearity: ± 1%  
5 other mounting styles available at no extra charge



© Entran's EGC-240 Accelerometer Cutaway