

# Electronic Digital EKG Caliper

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## Technology description

### Technical Summary

Standard electrocardiogram tracings provide graphical representations of the electrical activity within the heart. The most common method of interpreting these tracings involves the tedious counting of minute squares and manually calculating the desired physiological data. Because of the inaccuracy and level of time consumption, alternative devices have been designed to overcome the limitations of this method. These devices, however, have their own inefficiencies including simplistic designs that only allow the most basic information to be obtained and also space limitations that prevent additional data collection. We have developed a simple hand held caliper that solves the problems experienced with existing devices.

The electrocardiogram caliper is devised to measure parameters on an electrocardiogram tracing and use this information to determine physiological information such as heart rate, QT intervals, RR intervals, etc. Additional physiological information can be calculated using pre-programmed formulas and predetermined variables stored in the memory component. When compared to the current technology available, this device offers the advantage of efficiency, ease of use, and reliable data production.

## Application area

A portable measuring device that calculates complex myocardial conduction wave interval times from electrocardiogram monitor tracings.

## Advantages

Automatic electrocardiogram interval calculations from monitor tracings.

Portable, easy to use device to assist in cardiovascular diagnosis.

Ability to store multiple data points.

## Institution

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