

“Green” Optic Heart Rate Monitor

By Cedric Harrell

Abstract: A heart rate monitor is a common device used in the medical industry as well as for a persons’ personal use. A person monitors their heart rate by measuring their beats per minute (BPM). Measuring a persons’ BPM can vary depending on the person’s age and/or the activity they are doing. Typically, 60-100 beats per minute is considered normal. Photo Sensors can be used to detect changes in light intensity; this can be used to determine BPM. In today’s society, industries want things to be more economically friendly “Go Green”, therefore an alternate power source will be added, solar cells. This paper will be used to describe the development of the “*Green*” *Optic Heart Rate Monitor*, and why this could be a future product.

Key Words: Heart Rate Monitor, Photo Sensor, Sustainability, Solar Cells

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