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## Contents

## 1. INTRODUCTION

In many electrical and electronic systems, the rate at which energy is transferred is an important parameter. Referring to the true power or active power, it can be defined as the quantity taken from the source and

converted to heat in a nonreversible process. As it is well known, the defining equation for determining the active power in an electrical circuit is:

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$$P = \frac{1}{T} \int_{0}^{t} p(t)dt \tag{1}$$

where P is the active power, p(t)=i(t)u(t) the instantaneous power and T the period of the electrical signals. One possible way to evaluate P is to acquire the i(t)u(t) product and to post-process the time average. The Hall effect sensor represents a solution for this purpose [1].

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