

Logging Sketch #2: Logging Meter LED Pulse output

In many ways the simplest and cheapest way to log an electricity consumption profile is to count the pulses from the LED found on most modern (electronic) utility meters. The LED flashes every time a certain amount of electricity consumption has been registered by the meter. The meter shown to the right is a Secure Liberty 100 'smart meter'. The red arrow indicates the LED pulse output that I will use for this sketch. The yellow arrow indicates the IR Optical port that can be used to setup and to read the meter with a suitable magnetic IR plug, but this is expensive and more complex.

The pulse rate (pulses per kWh) is given on the meter nameplate - see below:



The nameplate data tells us that this meter generates 3,200 pulses per kWh - a lot! Every time a pulse is picked-up another 0.3125 Wh of energy has been registered by the meter. To put this in context, if there was a constant 1kW load in the house, then the LED would flash every 1.125 Seconds (3,600 Seconds / 3,200 pulses). The supply is rated for 100Amps at 230V, which corresponds to a maximum of 23kW, so in the most extreme case we would see a pulse every 156.5 mS, so the sketch needs to take account of this, although in reality it is unlikely that you would get more than 10kW of demand unless an electric shower was in use (+ kettle, etc.).

Secure Liberty Meter Manual

Robert R. Redfield



Secure Liberty Meter Manual:

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The book delves into Secure Liberty Meter Manual. Secure Liberty Meter Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Secure Liberty Meter Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Secure Liberty Meter Manual
 - Chapter 2: Essential Elements of Secure Liberty Meter Manual
 - Chapter 3: Secure Liberty Meter Manual in Everyday Life
 - Chapter 4: Secure Liberty Meter Manual in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Secure Liberty Meter Manual. This chapter will explore what Secure Liberty Meter Manual is, why Secure Liberty Meter Manual is vital, and how to effectively learn about Secure Liberty Meter Manual.
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4. In chapter 3, this book will examine the practical applications of Secure Liberty Meter Manual in daily life. The third chapter will showcase real-world examples of how Secure Liberty Meter Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Secure Liberty Meter Manual in specific contexts. The fourth chapter will explore how Secure Liberty Meter Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Secure Liberty Meter Manual. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Secure Liberty Meter Manual.

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