



2. SYSTEM OVERVIEW

2.1 SYSTEM DESCRIPTION

The SOCR System (Figure 1) contains electronics that control the continuous stimulation and sensing required to collect real-time intracardiac impedance and heart sounds signals. The impedance signals are collected from selected electrode vector configurations using the subject's implanted pacing leads/LV catheter and an investigational impedance pacing unit, the Model 19061 Acute Human Monitor (AHM) Module. A Model 2090 programmer with the SOCR Investigational Software along with a switch on the front panel of the AHM Module allow the user to select specific electrode vector configurations for current stimulation and voltage sense measurement. The heart sounds signals are collected from an investigational Model 19062 Heart Sound Sensor Device placed on the subject.

Real-time impedance and auxiliary signals from analog output terminals of the AHM Module, real-time heart sounds and EGM/marker signals from the two programmers through a 2090A/B Analog Output Module, and real-time LV pressure signals from the Millar PCU-2000 are transmitted to the applicable Biopac Data Acquisition System's analog input terminals. The Biopac Data Acquisition System transmits the acquired analog input signals to the computer's data acquisition software [AcqKnowledge[®]] which subsequently saves the data to the computer's hard disk and displays real time waveform data on the computer's display.

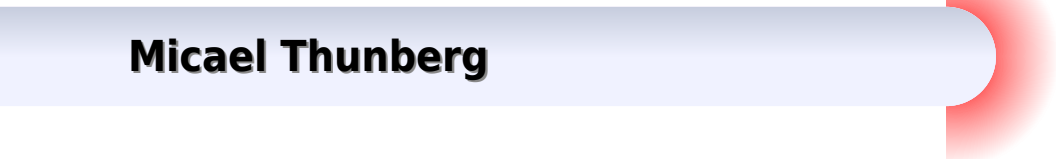
The AHM Module also contains circuitry for standard pacing interventions with the implanted right atrial (RA) lead, right ventricular (RV) pacing lead, and left ventricular (LV) pacing lead or catheter. The leads are connected to an investigational Model 15420 Patient Cable in order to interface with the AHM Module. The LV catheter is directly connected.

The Biopac MP150 Data Acquisition System also collects physiologic signals from standard EP laboratory equipment used for subject monitoring during device implant. These physiologic signals may include ECG, blood pressure, or other physiologic signals. Available physiologic signals can be recorded simultaneously with the above signals but are not required by Medtronic to obtain the study objectives.

The SOCR system is shown pictorially in Figure 1.

May 2013 Socr

Micael Thunberg



May 2013 Socr:

This book delves into May 2013 Socr. May 2013 Socr is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into May 2013 Socr, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to May 2013 Socr
- Chapter 2: Essential Elements of May 2013 Socr
- Chapter 3: May 2013 Socr in Everyday Life
- Chapter 4: May 2013 Socr in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of May 2013 Socr. This chapter will explore what May 2013 Socr is, why May 2013 Socr is vital, and how to effectively learn about May 2013 Socr.
3. In chapter 2, this book will delve into the foundational concepts of May 2013 Socr. The second chapter will elucidate the essential principles that must be understood to grasp May 2013 Socr in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of May 2013 Socr in specific contexts. This chapter will explore how May 2013 Socr is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about May 2013 Socr. The final chapter will summarize the key points that have been discussed throughout the book.

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