HEART FAILURE MONITORING SYSTEM

CardioMEMS™ HF System

Hospital Electronics System

Product Highlights

- The CardioMEMS™ HF System is the first and only FDA-approved heart failure (HF) monitor proven to significantly reduce HF hospital admissions and improve quality of life in NYHA Class III patients. When used by clinicians to manage HF, the CardioMEMS HF System is:
  - **Safe and reliable** — demonstrated 99.6% freedom from device or system complications[1]
  - **Clinically proven** — reduced HF hospitalizations by 57%[1]
  - **Proactive and personalized** — patient management through direct monitoring of PA pressure and titration of medications
- The CardioMEMS HF System provides direct pulmonary artery (PA) pressure monitoring using the sensor, patient electronics system and the Merlin.net™ Patient Care Network (PCN) to manage patient data. Patient-initiated sensor readings are wirelessly transmitted to an electronics unit and stored in a secure website for clinicians to access and review
- The hospital electronics system is used by the implanting physician to zero the sensor, based upon simultaneous readings from the PA catheter
- The hospital electronics system is designed for use by health care professionals to record PA pressure from the sensor, eliminating the need for patients to carry their electronics to the hospital or doctor's office
- The hospital electronics system powers the sensor using RF energy; receives and processes the frequency information from the sensor; and converts the data into pressure waveforms, PA pressure values and heart rate measurements

Ordering Information

Contents: Hospital Electronics System

MODEL NUMBER	DESCRIPTION
CM3000	Hospital Electronics System
CM3010	Printer
CM3011	Printer Serial Cables
CM3012	Printer Power Cables
CM3013	Printer Paper
CM3020	Power Cord – 125V 7A
CM3022	Power Supply Cable
CM3024	Power Cord Clip
CM3040	Wi-Fi† Adapter

1. Shavelle D, Desai A, Abraham W, et al. Lower rates of heart failure and all-cause hospitalizations during pulmonary artery pressure-guided therapy for ambulatory heart failure. *Circulation: Heart Failure*. Published online 2020. https://doi.org/10.1161/CIRCHEARTFAILURE.119.006863.

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Product Specifications

Model **Electronics Unit**	**CM3000**
Dimensions (H x W x L, inches)	11.5 x 5.5 x 10.5
Weight (lbs)	8
Power	
Power Supply	12v DC, 6A
Provided Power Supply	Medical Grade Class II. Input: 100-240V, 50-60Hz. Output: 12v DC, 6A. Manufacturer part number: CS-001301.
Power Cord	Use only power cord supplied by manufacturer
Radiofrequency (RF) Characteristics	
Transmitted Electrical Power	< 1 mW e.r.p.
Operating Frequency	30-37.5 MHz (under normal operating conditions the measurement bandwidth is approximately 1 MHz within the operating frequency range)
Processing Capabilities	
I/O	USB, VGA
Display	
Touch Screen	Resistive
Brightness	250 cd/m2
Resolution	800 x 480, color
Antenna	
Diameter (inches)	9
Weight (lbs)	4
Cable	Reference manufacturer's part number CS-001005
Environmental	
Operation	5° to 40° C (41° to 104° F), 15% to 93% humidity (non-condensing), 700-1060 hPa (electronics), 800-1150 hPa (implanted sensor)
Transportation	-25° to 70° C (-13° to 158° F), 15% to 93% humidity, 850-1150 hPa
Storage	-25° to 70° C (-13° to 158° F), 15% to 93% humidity, 850-1150 hPa

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

CardioMEMS™ HF System Indications and Usage: The CardioMEMS™ HF System is indicated for wirelessly measuring and monitoring pulmonary artery (PA) pressure and heart rate in New York Heart Association (NYHA) Class III heart failure patients who have been hospitalized for heart failure in the previous year. The hemodynamic data are used by physicians for heart failure management and with the goal of reducing heart failure hospitalizations.

CardioMEMS™ HF System Contraindications: The CardioMEMS HF System is contraindicated for patients with an inability to take dual antiplatelet or anticoagulants for one month post implant.

CardioMEMS™ HF System Potential Adverse Events: Potential adverse events associated with the implantation procedure include, but are not limited to, the following: infection, arrhythmias, bleeding, hematoma, thrombus, myocardial infarction, transient ischemic attack, stroke, death, and device embolization.

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