



BLOOD COLLECTION MONITOR



Quality, Management, Environment, Health & Safety Standards



CDSCO MD 5 License



USFDA Listed



European CE



ISO 9001: 2015
IAF



ISO 13485:2016
NABCB/IAF



ISO 45001 : 2018
IAF



7 Electric Safety Certifications
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,
IEC 61326-2-6.

INTRODUCTION

The MarkEn Blood Collection Monitor (BCM) is an advanced, microprocessor-controlled device designed to ensure safe, efficient, and precise blood collection. It provides consistent anticoagulant mixing, preventing clotting and safeguarding blood quality. Extensively used in hospitals, research clinics, and pharmaceutical industries, the BCM is engineered to adhere to government norms, ensuring the collection of accurate blood volumes from donors. Its portable and user-friendly design makes it ideal for donation rooms and outdoor camps, offering phlebotomists full control over the collection process. The BCM's precise monitoring of time, flow rate, and volume ensures donor safety and enhances the quality of collected blood.



FEATURES



Advanced Microprocessor/PLC Control:

Ensures accurate monitoring and control throughout the donation process.



Universal Bag Compatibility:

Compatible with all types of blood donor bags.



Efficient Mixing System:

Guarantees optimal mixing of blood and anticoagulant to prevent clot formation.



Large Touchscreen Display:

Provides real-time information, including:
Donation time | Collected volume | Average donation flow



Advanced Microprocessor/PLC Control:

Ensures accurate monitoring and control throughout the donation process.



Gentle Mixing Cycle:

Operates at 12–14 cycles per minute to ensure smooth and gentle mixing.



Adjustable Volume Collection:

Volume settings can be modified at any point during the donation process.



Automatic Clamp with Alarms

Tubing clamps automatically at the end of the donation with audible and visual alarms.



Memory and Data Recall

Stores up to 1000 donations, enabling retrieval and review of collection data.



Auto Tare Functionality

Automatically tares the empty bag for precise measurements.



Safety Features

- Adjustable upper limit for collected volume.
- Low and high flow alarms.
- Tube positioning detection and safety switch.



Calibration

Easily calibrated within seconds using a known calibration mass (500 g included).



Connectivity

Can be connected to a network via PC and software for data recording, including volume and flow values.



Guided Operation

Context-sensitive frames provide step-by-step guidance during operation.



Battery & Transport

Includes a transport case with built-in battery charging capability, ideal for both stationary and mobile use.



Volume Adjustment

Adjustable in 1 ml increments, with the ability to set two default volumes.



Maximum Donation Time

Configurable up to 20 minutes.



Data Storage

Stores up to 1000 donations for easy recall and troubleshooting.



Display Information

Shows the final collected volume and donation time in minutes and seconds.



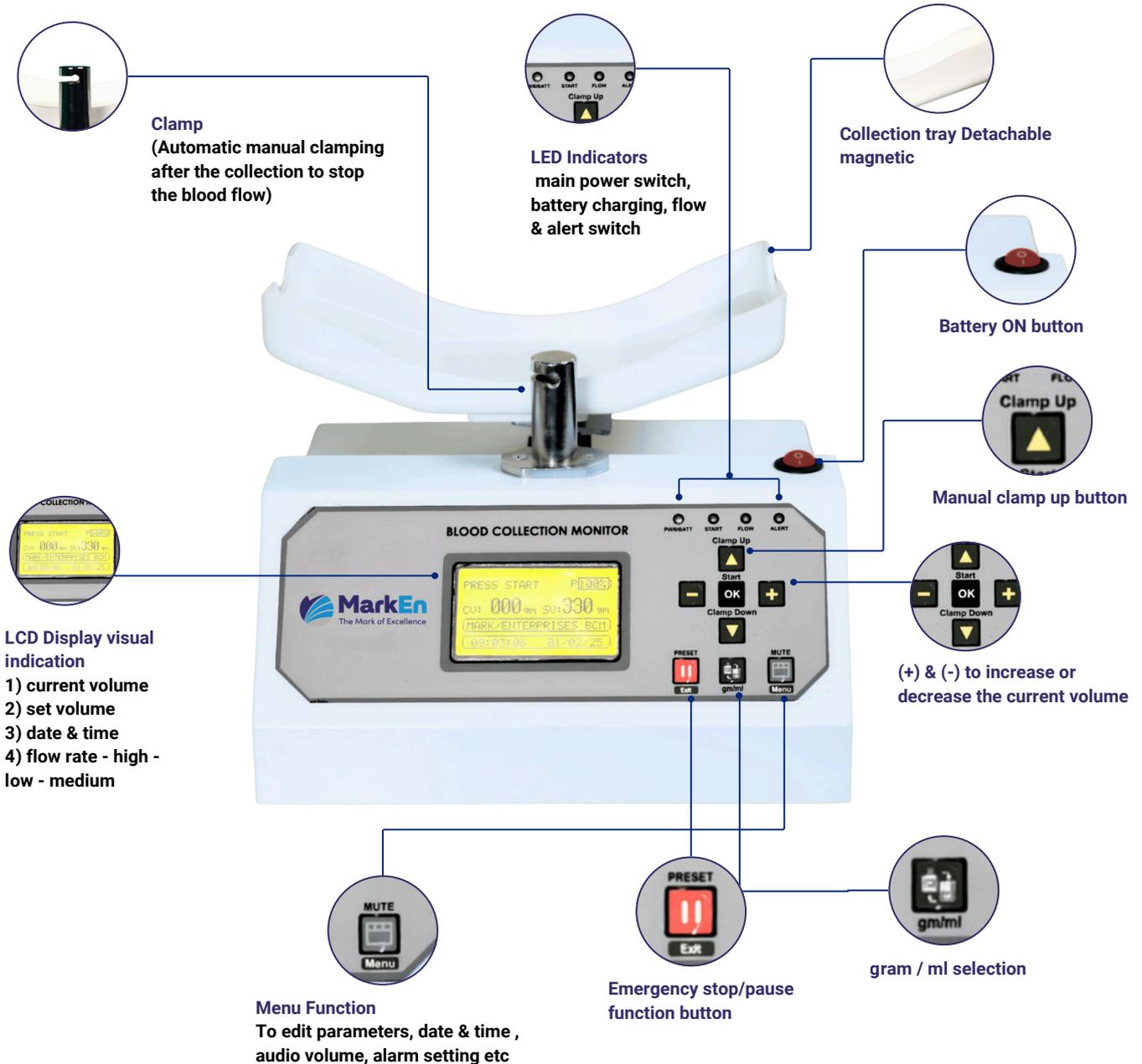
Durable Design

Portable and robust, suited for both indoor and outdoor applications.



Service Program

Includes common troubleshooting functionalities for enhanced usability.



BLOOD COLLECTION MONITOR

Without Battery Backup
With Battery Backup
With Battery Backup and QR code
With Battery Backup and QR code/Barcode Reader

TECHNICAL SPECIFICATIONS

Make	MarkEn
Weighing Range	0 g/ml to 1000 g/ml (1 g step) with accuracy >1%
Battery	7.5V DC - 55Wh for extended battery backup
Oscillation Details	16 - 20 ± 2 rpm, motor-driven oscillation
Clamping Mode	3-state clamp: Open, Lock, Closed with Automatic facilitated clamp option and active clamp check
Volume Setting	Adjustable in steps of 1 ml/5 ml/10 ml, automatic storage of set volume, continuous display of set and current volume
Auto Tare	Automatically calibrates the weight each time the Start Button is pressed
Alarms/Indications	Visual and Audible alarms for no blood flow, end of collection, - Pause function, battery low indication, sensor Failures, abnormal condition warning,
Dimensions (mm)	270 x 280 x 140 mm
Weight	4.8 kg
Real-Time Clock (RTC)	Built-in Real-Time Clock
Data Connection	Wireless/RS-232 port/Ethernet for bi-directional data transfer; USB drive compatibility
Power Consumption	6 W (Maximum)
Input Voltage	100-250 V AC, 50/60 Hz, ±10%

ALL-IN-ONE SOLUTION FOR

Cold Chain Solution
Medical Equipment
Blood Bank Equipment

Hospital & Scientific Equipment
Hospital Furniture & Infrastructure
Commercial Refrigeration



25+

Years of Excellence



400+

Product Range



500+

Service center



1000+

Committed Engineers



1,00,000+

Satisfied Users

CERTIFICATION



10 products tested by a WHO-PQS accredited laboratory



ISO 14001: IAF



WHO GMP



BIFMA Certified, BIFMA Level 3



ASTM- Corrosion Free Products



ISO 2409

EN 13523-26,
ISO 13849-1,
IP 69, IP 65

& MANY OTHER...

OUR ESTEEMED CUSTOMERS



& MANY MORE...



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