

BMT202 MESLEKİ

YABANCI DİL 2

14.HAFTA

GAMA MESLEK YÜKSEKOKULU

ÖĞR.GÖR.MEHMET DURSUN

System Overview - A3

The A3 is a full function monitor for use on adult and pediatric patients.

The functions performed by the system include monitoring patient ECG, heart rate, respiration

rate, blood pressures, blood oxygen saturation, and temperature.

In addition to monitoring and displaying the status of these physiological parameters, the

instrument performs various microprocessor-programmed analytical functions, such as:

Creating both visual and audible alarm signals when set limits are violated Creating and

displaying warning messages when conditions are detected that would degrade or prevent

valid measurements Creating and displaying trend waveforms or tabular data;

Providing a synchronizing pulse for defibrillator operation;

Providing input to an optional recorder for printout of current or trend waveforms or tabular data.

The monitor is essentially a battery-powered instrument.

An internal charging unit is designed to accept either an AC line voltage or DC source input voltage.

The charger uses these external power sources to maintain a float voltage source available

from the batteries.

Block Diagram - A3

The A3 functions are represented graphically in the System Block Diagram, Figure 2.

Each section of the System Block Diagram is described briefly in the text that follows the illustration.

This is followed by more detailed descriptions of the theory of operation of each block.

Kaynakça:

Philips A1 and A3 Patient Monitors- Service Guide

Service Guide.

Philips Medical Systems

<https://www.usa.philips.com/healthcare>