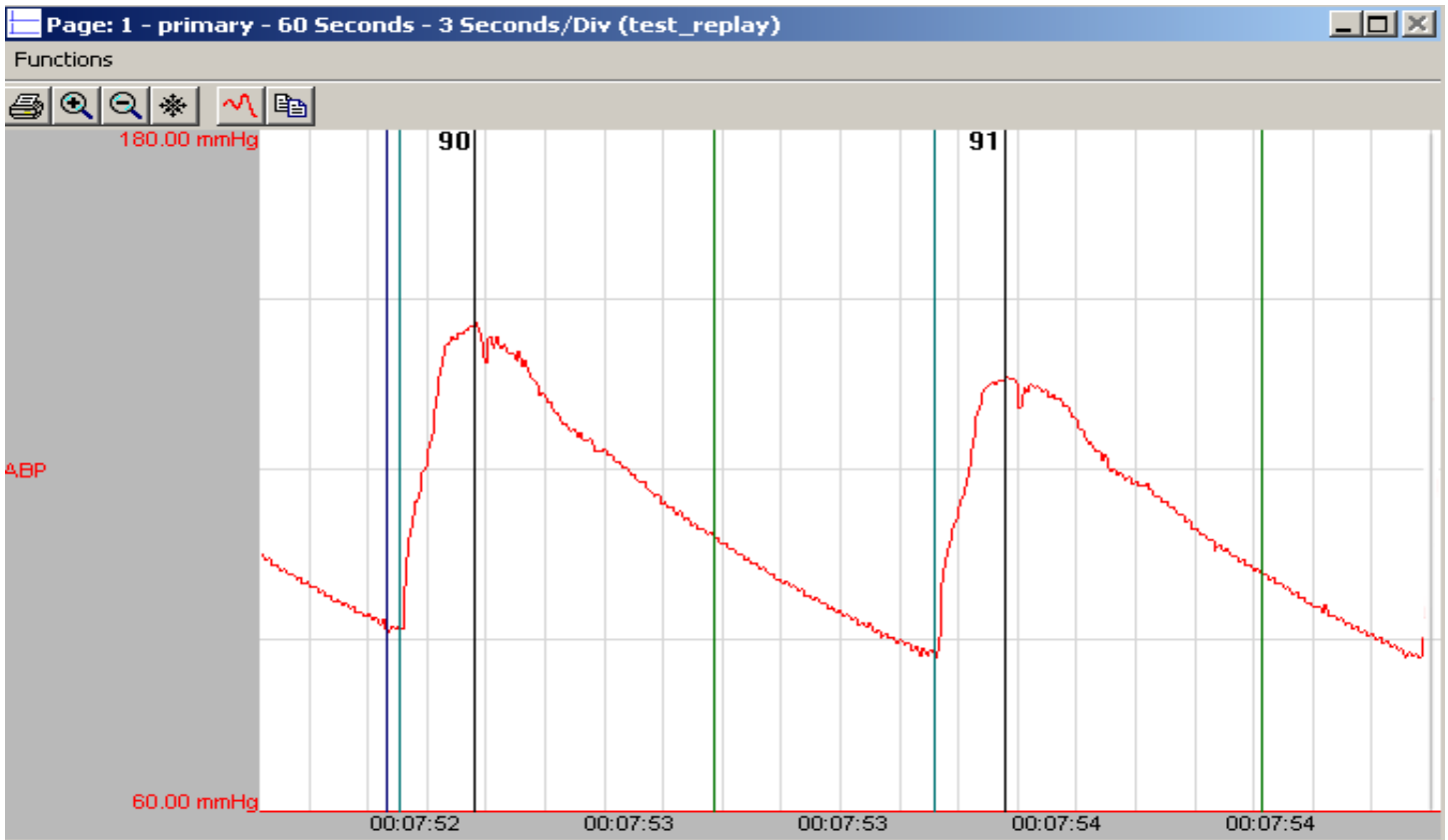




Blood Pressure

The Blood Pressure (BP) Analysis Module computes physiologically meaningful parameters from digitized pressure data. The analysis functions by applying a series of logical tests to the digitized pressure signal and the first derivative of the pressure signal (dP/dt) using criteria selected by the user. The graph below represents a typical aortic pressure recording as it would appear on the monitor. Automated validation

marks for Diastolic, End Diastolic, Systolic and a user defined % Recovery Point are shown. The validation marks provide visual, on-line verification of the accuracy of the system. The list on the following page describes the parameters calculated by the analysis module either in real-time or during subsequent analysis.



Technical Data Sheet

Model PNM-BP100W

Blood Pressure—Analysis Module

Name	Definition
Num	The number of the cardiac cycle.
Sys, Dia, Mean	Systolic, Diastolic, and Mean pressure.
PH, HR, TTPK, ET	Common parameters include Pulse height, Heart rate, Time to peak, Ejection time.
+dP/dt, -dP/dt	Maximum positive and negative value of the first derivative of the pressure.
%REC	The amount of time it takes the pressure to recover.
NPMN	Non-pulsatile mean pressure.
Q-A	The Q-A Interval is the time in milliseconds from the start of the Q-wave, in the ECG trigger channel, to the start of the systolic pressure rise.
Mean2	An alternate representation for Mean calculated as $(\text{Systolic} + 2 * \text{Diastolic})/3$.
PTT	Pulse Transit Time (PTT) is the time between the prior systolic time of the upstream channel and the systolic time of the selected channel. This time is reported in ms.
PWV	Pulse Wave Velocity (PWV) is the velocity calculated by using the Pulse Wave Distance (PWD) and Pulse Transit Time (PTT). PWV is calculated as: $\text{Pulse Wave Velocity} = \text{Pulse Wave Distance} / \text{Pulse Transit Time}$.

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