

# BP-220 Blood Pressure Cuff

## Overview

The BP-220 is a blood pressure cuff that can be used with the GSPN-100 gas pressure sensor to record the pressures in the cuff as it is inflated and deflated. The output of the pressure sensor is a voltage that is recorded by a data acquisition unit and converted into units of pressure (mmHg) by calibration.

After the blood pressure cuff of the BP-600 is placed on the upper arm of a subject, it is inflated to occlude the flow of blood in the subject's arm. As the pressure in the cuff is released, the return of blood flow in the arm can be monitored by either of two methods. In one method, an observer uses a stethoscope to listen for two characteristic sounds from the brachial artery that correspond to the systolic and the diastolic pressures of the subject. In the other method, a pulse plethysmograph is placed around the tip of a finger on the occluded arm. The recorded output of the transducer indicates the systolic pressure occurs when the pulse wave reappears and the diastolic pressure occurs when the pulse amplitude reaches a maximum.

## Photo



## Operating Instructions:

Put the cuff of the BP-600 on the upper arm of the subject. Align the arrow on the cuff over the subject's brachial artery. Have the subject rest in the supine position

Connect the BP-220 to the GSPN-100 gas pressure sensor using the tubing provided. Refer to the GSPN-100 tech note for instruction on calibrating the GSPN-100.

