

BP-100 Blood Pressure Monitor

Full-featured monitor for direct BP measurement



The **BP-100 Blood Pressure Monitor** is an accurate, easy-to-use instrument for measuring direct blood pressure (BP) from small animals. It is designed to operate using standard, widely available clinical-type BP transducers (included with unit). In addition, miniature catheter-tip transducers are available for high-resolution intra-arterial BP measurements. The standard *systolic*, *diastolic*, and *mean* pressures are reported, along with *heart rate* (HR).

The BP-100 features automated operation, including push-button transducer zeroing. High and low-pressure alarms are user-adjustable. A serial data output is provided for remote data collection. Analog voltage outputs for fast (continuous signal), systolic, diastolic, and HR are compatible with data acquisition systems. All computed measurements are updated every 2.5 seconds. A special fast mode can be selected, where the display is rapidly updated. This mode allows the BP-100 to be used as a general-purpose transducer amplifier for recording signals other than arterial BP.

Specifications:

Input type	differential instrumentation amplifier, 1Megohm impedance
Excitation voltage	5.0VDC
Transducer compatibility	.DC bridge-type
Transducer input jack	6-pin WK6-32S
Transducer output (nominal)	5uV/V/mmHg
Pressure measurement range	0 – 310mmHg
Frequency response	1kHz
Pressure accuracy	±1mmHg
Pressure resolution (displayed)	1mmHg
Pressure resolution (analog outputs)	0.1mmHg
Pressure signal, Systolic, Diastolic analog output scaling	10mV/mmHg
Heart rate (BPM) analog output scaling	5mV/bpm
Output impedance (all outputs)	10 ohms
Analog output connectors	.BNC jacks
Serial data output format	9600 baud, 8 data bits, no parity, 1 stop bit
Serial output connector (rear panel)	3.5mm 3-cond mini phone plug
Display	vacuum florescent graphic display
Dimensions, main unit	9W x 2.5H x 7D in. (23 x 6.3 x 18cm)
Power requirements (using supplied 5VDC adapter)	.120/240V universal input, 10VA

Ordering Information:

<u>Part No.</u>	<u>Model</u>	<u>Description</u>	<u>Applications</u>
19-10000	BP-100	Blood Pressure monitor w/ transducer	Direct BP measurement in small animals
10-04103	BP-MINI	Miniature catheter-tip BP transducer	High-resolution intra-vascular pressures
10-04100	DTX-1	Standard BP transducer	Requires catheter and TC-GRA adapter cable

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