

Technical Specification for Omron VP 1000 Plus (Quantity: 1)

Description: Omron VP Omron VP 1000 Plus 1000plus is a clinically validated device to assist in the detection of peripheral vascular diseases and have been designed and tested to automate published clinical diagnostic test methods. The device is capable of measuring non-invasive blood pressure (NIBP), ECG (lead I), non-invasive pulse waveforms, and heart sound. Besides, the monitors are also capable of calculating clinically recognised vascular indices.

In addition to the basic vital signs, the required Omron VP 1000 Plus should perform the following measurements:

- **Ankle-Brachial Index (ABI)** – a standardised index of the degree of arterial blockage existing in the lower limbs due to Peripheral Artery Disease (PAD)
- **Brachial Ankle Pulse Wave Velocity (baPWV)** – index of arterial stiffness that shows an independent marker of high-risk arteriosclerotic patients

Technical Specifications: The supplied Omron VP 1000 Plus device should also conform to the detailed performance specifications as listed in the table below.

S.NO	Specification	COMPLIED/NOT COMPLIED	CATALOGUE PAGE NO
	Main Unit		
1.	Type	Non-Invasive Screening Device	
2.	Power	00-240 VAC 50/60 Hz	
3.	Power consumption	150 VA	
4.	Dimensions	Main Unit: 310 (W) * 270 (D) mm, excluding protrusions Stand attached: 400 (W)*1060 (H)*600 (D)mm	
5.	Weight	Main Unit: Approx 4.1 Kg Stand attached: Approx. 35 kg	
6.	Display type	Digital display	
7.	Standard accessories	Stand, Stand cover, Power cord, Power tap, USB Cable, arm cuffs, ankle cuffs, sensor box, ECG clips, Phonocardiogram sensor, vessel model, Touch pen.	
	Electrode System		
1.	Dielectric	Tri-polar method	
2..	Heart rate display range	30-240 bpm	
3.	Protection class	CF type	

4.	Anti-defibrillator	With protection		
	Phonocardio signal detector			
1.	Measurement Method	Air conduction microphone		
2.	Detection element	Capacitor microphone		
3.	Protection Class	BF type		
4.	Anti-defibrillator	With protection		
	Non-invasive blood pressure measurement system			
1.	Measure method	Oscillometric		
2.	Pressure display range	0, 10-300 mmHg		
3.	Pulse rate display range	40-180 bpm		
4.	Measurement precision	Pressure ± 3 mmHg Pulse rate $\pm 1\%$ or with 1 bpm of a read value		
5.	Pressure detection	Semiconductor piezo-type pressure sensor		
6.	Inflation method	Automatic inflation by a pump		
7.	Deflation	Automatic deflation by a solenoid control valve		
8.	Protection class	BF type		
9.	Anti-defibrillator	With protection		

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)