

microlife®

Empower people for a healthy today
and a better tomorrow.

Let's work
together for
better health.



Microlife **WatchBP**

Professional blood pressure monitors

The professional cardiovascular management solution for better diagnosis of heart diseases and stroke risks

WatchBP

The professional cardiovascular management solution for better diagnosis of heart diseases and stroke risks

Clinical blood pressure measurement has limited accuracy because of:

- ✓ Blood pressure variability
- ✓ White coat effect/hypertension
- ✓ Masked hypertension

Therefore, guidelines recommend:

- ✓ Ambulatory (24-hour) blood pressure measurement
- ✓ Self-measurement of blood pressure at home
- ✓ Unattended automated office blood pressure measurement

Additional cardiovascular screening is also recommended for:

- ✓ Atrial Fibrillation (AF)
- ✓ Peripheral arterial disease
 - Ankle Brachial Index (ABI)
 - Inter-Arm Difference (IAD)
 - Pulse wave velocity (PWV)
- ✓ For special patient groups, WatchBP devices are validated and recommended to measure:
 - Children from the age of 3 years
 - Pregnant women with or without pre-eclampsia
 - Patients with end stage renal disease
 - Diabetes patients
 - Elderly
 - Patients with hypotension
 - Patients with atrial fibrillation

Microlife WatchBP presents a solution that makes screening for these important cardiovascular risks easy, fast and accurate.



AFIB Detection



Protocol Embedded



Protocol Embedded



Protocol Embedded

Product overview

WatchBP Products

Office Blood Pressure Measurement



Ambulatory Blood Pressure Measurement



Self-Measurement of Blood Pressure at Home



Accuracy and validations

Clinically validated blood pressure monitors

All Microlife WatchBP devices are validated according to the established international protocols.

Clinical devices

WatchBP Device	Validation protocol		Circumstance
	BIHS	AAMI / ISO / ESH	
Office Vascular	A/A	Pass	At rest/ L-XL Size cuff /children >3 year
Office (2nd generation)		Pass	At rest/ L-XL Size cuff /children >3 year
Office ABI	A/A	Pass	At rest/ L-XL Size cuff /children >3 year
Office AFIB	A/A	Pass	At rest/ L-XL Size cuff /children >3 year

*All devices are validated for L-XL size cuff and for children from the age of 3 years old.

Ambulatory blood pressure monitoring devices

WatchBP Device	Validation protocol		Circumstance
	BIHS	AAMI / ISO / ESH	
O3 (2nd generation)		Pass	At rest/ L-XL Size cuff /children >3 year

Self-measurement devices

WatchBP Device	Validation protocol		Circumstance
	BIHS	AAMI / ISO / ESH	
Home A BT (Bluetooth®)	A/A	Pass	At Rest
		Pass	L-XL Size Cuff
Home A	A/A	Pass	At Rest
		Pass	L-XL Size Cuff
Home	A/A		At Rest
	A/A	Pass	Pregnancy
	B/A		Pre-eclampsia
		Pass	L-XL Size Cuff

BIHS, British and Irish Hypertension Society;

AAMI, Association for the Advancement of Medical Instrumentation;

ISO, International Organization for Standardization;

ESH, European Society of Hypertension;



Special patient validations

About special patient validations

Because of the technique that is used in automated oscillometric blood pressure monitors, they can be inaccurate when used in so-called special patient groups. This can lead to the fact that a blood pressure monitor that is validated in “regular subjects” may not give accurate readings when used e.g. during pregnancy or when used in children, elderly or diabetes patients. This can have serious clinical consequences.

Therefore, medical standard authorities require that a blood pressure monitor may only be recommended for such a special patient group if it has been validated for this specific group.

Microlife blood pressure monitors have passed many of these challenging validations so that they now may be recommended for almost all special patient groups.

	Stiff arteries						Very low BP values		Cuff fit		AF*
	ESRD*	Diabetes	Elderly	Dialysis	Pre-eclampsia	Pregnancy alone	Hypotension	Children & adolescents	Obesity	Cuff wide-range	
Microlife	●	●	●	●	●	●	●	●	●	●	●

*ESRD, end-stage renal disease; AF, atrial fibrillation

Accurate measurement for End Stage Renal Disease



Patients with moderate to severe renal disease have a very high incidence of hypertension, paired with stiff (calcified) arteries. As automated measurements can be influenced by stiff arteries, a special validation is required before blood pressure monitors can be recommended for use among patients with end stage renal disease.

Available models:

WatchBP Office Vascular
WatchBP Office 2nd generation
WatchBP Office ABI
WatchBP Office AFIB

WatchBP O3 2nd generation

WatchBP Home A BT
WatchBP Home A
WatchBP Home
WatchBP Home BT



What is Pre-eclampsia?

Pre-eclampsia is defined as new hypertension and substantial proteinuria after 20 weeks gestation. Due to the unpredictable nature of pre-eclampsia, hypertensive women must have their blood pressure measured frequently.

Accurate measurement for Pre-eclampsia

Most oscillometric blood pressure monitors underestimate blood pressure in pre-eclampsia. For this reason, oscillometric blood pressure monitors may only be recommended for use in pregnancy when specifically tested in this special patient group. The WatchBP Home allows pregnant women to measure their blood pressure at home which could reduce the number of hospital visits and may help to make motherhood safer.

Available Models:

WatchBP Office Vascular
WatchBP Office 2nd generation
WatchBP Office ABI
WatchBP Office AFIB

WatchBP O3 2nd generation
WatchBP Home BT
WatchBP Home



Accurate measurement for children

Currently, blood pressure measurement is an important part of routine paediatric physical examination. However, as children have a high respiration rate and have difficulties in sitting still, one needs a blood pressure monitor with a high-quality algorithm that can filter out these artefacts. In addition, a wide cuff range is needed that covers very small to large arm circumferences. The WatchBP blood pressure monitor has proven to cover all these aspects and therefore can be recommended for children and adolescents aged 3 to 18 years old.

Available models:

WatchBP Office Vascular
WatchBP Office 2nd generation
WatchBP Office ABI
WatchBP Office AFIB

WatchBP O3 2nd generation

Accurate measurement for diabetes patients

Patients with Diabetes Mellitus type 1 and 2 may have stiff arteries that can affect the blood pressure measurement. A recent validation study in diabetes patients type 1 and 2 showed that the WatchBP monitor is accurate when used in this patient group.

Available models:

WatchBP Office Vascular
WatchBP Office 2nd generation
WatchBP Office ABI
WatchBP Office AFIB

WatchBP O3 2nd generation

WatchBP Home A BT
WatchBP Home A
WatchBP Home BT
WatchBP Home



Features overview

WatchBP Office

WatchBP Device	3 Consecutive measurements	Double arm measurement	Auscultatory mode	AFIB detection	ABI assessment	Central BP measurement	AOBPM* (SPRINT algorithm)	PWV measurement	PC link	Bluetooth® connectivity	Special patient validations			
											End-stage renal disease	Diabetes patients	Pregnancy & pre-eclampsia	Children age 3+
Office Vascular	●	●		●	⊙	⊙	●	⊙	●	●	●	●	●	●
Office (2nd Generation)	●		●	⊙		⊙	●		●	●	●	●	●	●
Office ABI	●	●		●	●		●		●		●	●	●	●
Office AFIB	●	●	●	●			●		●		●	●	●	●

⊙ Optional;

* Automated Office Blood Pressure Measurement

WatchBP O3 Ambulatory

WatchBP Device	24-hour ambulatory BP monitoring	AFIB detection	Central BP measurement	Night-time measurement	Pill-button	PC link	Bluetooth® connectivity	End-stage renal disease	Special patient validations		
									Diabetes patients	Pregnancy & pre-eclampsia	Children age 3+
O3 (2nd Generation)	●	⊙	⊙	●	●	●	●	●	●	●	●

⊙ Optional;

WatchBP Home

WatchBP Device	Single measurement	3 Consecutive measurements	AFIB detection	ESH/AHA/BIHS guidelines embedded	PC link	Bluetooth® connectivity	End-stage renal disease	Diabetes patients	Pregnancy & pre-eclampsia
Home A BT (Bluetooth®)		●	●	●	●	●	●	●	
Home A		●	●	●	●		●	●	
Home	●			●	●		●	●	●
Home BT		●		●	●	●	●	●	●

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