Highest measurement accuracy in ABPM **custo screen 300/310/pediatric**







custo screen 300 The fast and safe way to get a valid report!

custo screen 300 is the first ABPM recorder worldwide that has been successfully validated according to stringent requirements of the ESH-IP-2010 protocol. This product stands out with its reliable and reproducible measurement results, significantly improved artefact suppression and increased patient comfort. The ambulatory 24-hour blood pressure measurement is the gold standard in diagnosis and therapy of hypertension.



Our Benefits:

- Skin-friendly, easy-to-disinfect, synthetic cuff available in sizes S to XXL (latex-free)
- High-quality double tube system for significant reduction of motion artefacts
- Efficient energy management enables recordings up to 72 hours
- Night mode for a restful sleep
- Low-noise pump valve unit for patient-friendly measurement
- Adaptive algorithm for gentle measurement
- Robust recorder with high-performance components for a long product life cycle
- Fast data transfer from the recorder to the PC





Validation custo screen 300: www.dableducational.org/ sphygmomanometers/devices _3_abpm.html#AbpmTable



© custo screen 310

It happens again and again that hypertension patients remain undetected or that they are treated insufficiently due to the conventional blood pressure measurement on the upper arm. What does our ABPM recorder custo screen 310 offer?

High measurement accuracy

Our solution provides a very high coherence with invasively measured values.

Validated procedure

Accuracy has been proved in a multicentre validation study (according to ARTERY protocol).

All-in-one device

The central and brachial blood pressure values, including a pulse wave analysis as single measurement and as 24 hour measurement (ABPM) are available in one device.

No additional examinations

The pulse wave analysis is made automatically during the standard blood pressure measurement.

custo screen pediatric Safe diagnostics for pediatric cardiology

custo screen pediatric is the first ABPM recorder worldwide for measurement in children, validated according to the stringent requirements of the European Society of Hypertension (ESH-IP 2010). The specially developed measurement technology improves artefact suppression significantly.

Successfully validated according to ESH-IP 2010

Our benefits:

- Special pump with reduced volume when inflating, for a gentler measurement process
- High safety due to double pressure relief valve
- Special child cuffs with low volume
- Threshold values for children according to pediatric cardiology guideline
- Exchangeable top covers with set of motifs



3 to 5 years Cuff size: Pediatric 14 – 20 cm



5 to 8 years Cuff size: Small 20 – 24 cm



9 to 12 years Cuff size: Standard 24 – 32 cm



Measurement ranges of custo screen pediatric

Comparison of		
measurement ranges:	pediatric	300 310
Heart rate, beats/min:	35 – 220	35 – 220
Systolic blood pressure, mmHg:	50 - 160	70 – 270
Diastolic blood pressure, mmHg:	30 - 110	40 - 155

German Society of Pediatric Cardiology

Pediatric cardiology guideline S2k, pediatric nephrology and pediatrics: Arterial hypertension

Excerpt: 4.1 Blood Pressure Measurement

"...The devices used to measure blood pressure are to be validated for children (www.dableducational.org) and the measurement process is to be standardised. As there are strong intra- and inter-individual variations in blood pressure, several single measurements are necessary which have to be verified in ambulatory 24-hour monitoring. It makes sense to measure blood pressure in all children from the age of 3 years, on the occasion of each physical examination as well as in the context of preventive check-ups."

(S2k Leitlinie Pädiatrische Kardiologie, Pädiatrische Nephrologie und Pädiatrie: Arterielle Hypertonie; Seite 5; http://www.kinderkardiologie.org/fileadmin/user_upload/Leitlinien/LL_Arterielle_Hypertonie.pdf)

custo holter ABPM Synchronous recording of Holter and ABPM



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In order to find out if your hypertension patient is at the same time arrhythmia patient, custo holter ABPM is the right choice.

The combination of custo screen 300/310 and custo guard holter is the perfect solution for simultaneous recording of Holter and ABPM. The system provides high wearing comfort without disturbing and artefact prone Holter cables.



Holter device custo guard holter:

- 3-channel lead without any cables
- Up to 72 hours recording time
- Pacemaker detection

2 Innovative electrodes custo wing:

- Easy placement due to snap fasteners
- · Ergonomic shape and adhesive on the whole surface, for extraordinary recording quality
- Perfect for Holter ECG thanks to particular material properties







custo clean

Hygienic and safe – the new disposable bag for your custo med device

- Protects patients and medical staff
- Extends lifetime of the devices
- Easy to handle
- Time-saving preparation of devices
- 100 % recyclable

The disposible bags are also available for custo cardio 300, custo flash and custo ECG-cable guard 3



ABPM features in the custo diagnostic software

- **Summary of an ABPM recording:** Beside the graphic view of the blood pressure progress, all measured values (systole, diastole, mean arterial pressure, pulse pressure amplitude etc.) are shown.
- Fast and easy identification of the **dipping behaviour** at a glance.
- The evaluation comparison enables a detailed comparison of two arbitrary evaluations.
- In the **trend view,** it is possible to trace the progress of different indicators over several evaluations. Thus, the check-up of a long-term therapy is facilitated.
- In the **automatic proposal,** the classification and severity of hypertension, the nocturnal blood pressure behaviour as well as the risk factors and their potential consequences are specified.
- The **printout** includes the single values, the measured value table, the risk assessment and the proposal, clearly arranged on one page.
- **Measurement results which are implausible** (for example outliers) can be excluded from the statistical analysis.
- All recorder activities are logged so that all interactions are visible.



Risk stratification in custo diagnostic

With the software package "screen professional", the 10-year risk of a patient for severe cardiovascular disease can be determined.



The risk stratification combines the blood pressure severity with the cardiovascular risk factors and determines the individual risk for the patient. The cardiovascular risks are important for both diagnosis and prognosis of the blood pressure disease.

It gives a clear, simple view and quickly supplies reports thanks to the automatic proposals.

	User	custo med GmbH			? _	
	Patient	Mustermann Franz			10.10.196	
	Examination	ABPM	14.04.2020	(09:15) - 15.04.	2020 (09:00) 23	
		sk stratification			-	
mmHg	Select risk factors for risk assessment			101-69	2	
bom T						
175	 Age, Gender 			-	1 1	
140	No further risks			_	1111	
105	Smoking					
70	Abdominal adiposity				122	
35	Dyslipidaemia					
	Positive family history				la de la companya de	
	Impaired glucose tolerance				00 09:00 Ck	
	Left ventricular hypertrophy				o. of Measurem	
Blood Pressure	Atheroscierotic plaques				Total 74	
Limit Values	Increase of serum-creatinine					
Risk assessment	Microalbuminuria					
	Decreased creatinine clearance				Grade 3	
	Increased pulse wave velocity				Grade 3	
No risk rectors	Reduced Ankle-Brachial-Index					
1 - 2 risk factors	Diabetes mellitus			-		
>= 3 risk factors						
diabetes/end-orga			Confirm C	ancel		
cardiovascular or renal comorbidities	2				-	
Comparison	Overview Table	Diagram	Options *	Print	End	





Targeted patient communication

NEW Central blood pressure and pulse wave analysis in custo diagnostic

The central blood pressure is determined with the help of a pulse wave analysis. It serves for better characterising different types of high blood pressure. Central and peripheral blood pressure may deviate strongly from each other, depending on age, risk factors and condition of arteries.

Today, the exclusively brachial blood pressure measurement is no longer sufficient to characterise all forms of hypertension in any age exactly enough and to assess the risk adequately.



Knowledge about the central blood pressure has the following benefits:

- It allows improved prediction accuracy of future cardiovascular events, going beyond the brachial blood pressure and other cardiovascular risk factors.
- It represents a superior diagnostic precision compared to the brachial blood pressure.
- It allows more individual and enhanced patient care, instead of the usual one that only focuses on brachial blood pressure.

Spot measurement with custo screen 310

Beside the measurement of long-term blood pressure, the software module allows a spot measurement (single measurement) to assess the cardiovascular risk. Pulse wave velocity is the crucial indicator here.

The spot measurement includes the following values:

- Brachial and central blood pressure
- Pulse wave velocity
- Heart rate
- Artery age



If pulse wave velocity is suspicious, the spot measurement can justify an ABPM in order to verify suspected hypertension. In the spot measurement, the brachial pulse wave is displayed graphically.

ABPM and Holter: custo holter ABPM

In the simultaneous recording of Holter and ABPM, the values are shown in compact and clearly structured format so that they can be seen at a glance. It is possible to change to detailed views and analysing functions at any time.



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