18 872 B SysToe – Quick guide

Modif.	Rév.	Date						
04 090	Α	7/02/2011	First release					
04 335	В	28/08/2012	Release of new software version 23a					
APPROBATION								
Quality		R&D Atys	Sales					



Normal toe: MODE AUTO →two cuffs (occlusion & sensor cuff)

1	The supine patient should be resting for 10 min in a room between 22°C and 25 °C. The patient's feet should be warm (≈27°C)					
2	Wrap the occlusion cuff at the base of the toe. The cuff must not be too tight to prevent any residual pressure.					
3	It is compulsory to stick a piece of double-sided ring tape on the sensor. The tape must not cover the infrared cells (white rectangles).					
4	Stick the sensor on the pulp extremity of the toe and secure the sensor cuff. The sensor wire and the cuff tube go downwards as shown on the picture.	Contraction of the second seco		A CONSTRUCTION OF CONSTRUCTUON		
5	Switch on the SysToe: Check that the AUTOMATIC MODE is selected. If it is not the case, press on MODE.	MODE AUTO				
6	Press on BRA.P in order to input the arm pressure.	0300mmHa 15:33 ■ MODE AUTO MODE BRA.P START	InPut brachial Press. Brach. Prs: 125mmH9 DEFLT CLEAR (RET.)	Input the pressure with the keyboard. Press on RET. .		
7	The displayed signal is pulsed or flat. Press on START . The measurement is performed automatically.	O300mmHg 15:43 ■ MODE AUTO MODE BRA.P (START)	MODE AUTO			
8	Press on STOP when there is a clear and confirmed increase of the sensor signal. This action stops the examination before the complete deflation of the occlusion cuff.	0300mmHg 15:45 ■ 108 mmHg STOP	0300mmH9 15:45 ■ 75 mmH9	Clear & confirmed increase of sensor signal		
9	The opposite screen is displayed. Check the position of the vertical cursor. It must be at the foot of the upslope of the sensor signal. If it is the case, press on VALID	Vertical cursor	O300mmHg 15:46 ■ VALID POS CURSOR ADJUST VALID	If it is not the case, move the cursor with the horizontal arrows. Press on VALID.		
10	The systolic pressure and TBI are displayed.	TOE BRA. TBI 100 120 O, 83 mmH9 mmH9 O, 83 BACK NEW VALID	 Input the arm pressure if necessary. BACK Return to the previous screen. NEW Return to Step 7. 	VALID to save the measurement in the internal memory		



Short toe: MODE SEMI-AUTO → only one cuff (occlusion cuff)

The SysToe is fitted with a short toe module. This module should be used only if the toe is too short to accommodate both the occlusion cuff and the sensor cuff.

2	The supine patient. Wrap the occlusion cuff at the base of the toe. The cuff must not be too tighten to prevent any residual pressure Remove the sensor from its cuff and stick a piece of double- sided ring tape on it.			
3	Stick the sensor on the toe pulp. The sensor wire and the cuff tube go downwards as shown on the picture.			
4	Switch on the SysToe:	MODE SEMI-AUTO		
5	Press on BRA.P in order to input the arm pressure.	O250mmHg 14:36 ■D	InPut brachial Press. Brach. Prs: 125mmHy DEFLT CLEAR (RET.)	 Input the pressure with the keyboard. Press on RET
6	The displayed signal is pulsed or flat.	O300mmHg 15:43 ■ MODE AUTO MODE BRA.P (START)	MODE AUTO	
7	Press on START The opposite screen is displayed	©300mmHa 09:31 ■) MODE SEMI-AUTO > Press to start 5 STOP		
8	Then press immediately strongly on the sensor as indicated on the opposite picture. Maintain the pressure as long as « Keep press Until BIP » is displayed.		91 MmHa Until BIP STOP	
9	When this message disappears, release the pressure. The measurement is performed automatically. For the next steps, refer to the normal toe guide (step 8).		0300mmHg 16:50 ■ 62 mmH9 stop	



CURVE ANALYSIS



Toe systolic pressure (SYS) and Toe Brachial Index (TBI)

Diagnosis of peripheral Arterial Disease

When arm pressure is input by the user, the SysToe calculates the TBI value.

TBI = Toe systolic pressure (mmHg)

Arm pressure (mmHg)

- TBI < 0.65 → PAD
- TBI >0.65 → No PAD

Diagnosis of critical ischemia : SYS < 30 mmHg

Diagnosis of arterio venous hemodialysis access-induced hand ischemia

SYS < 60 mmHg or TBI < 0.4 are highly associated with hand ischemia.

When the measured value is lower than the normal value, it is advised to perform a second measurement and even a third one to confirm the diagnosis.



This short guide doesn't exempt you from reading the SysToe user's manual

