


The technical alarm condition (outside the rated range) is present in the factory and cannot be adjusted or inactivated. This alarm condition is assigned as low priority according to IEC 60601-1-8. The technical alarm is non-latching and need no reset. The signal displayed on LCD will disappear automatically after about 8 seconds.

6.13. Troubleshooting (1)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD Display shows abnormal result	The cuff position was not correct or it was not properly tightened	Apply the cuff correctly and try again
	Body posture was not correct during testing	Review the "BODY POSTURE DURING MEASUREMENT" sections of the instructions and re-test
	Speaking, arm or body movement, angry, excited or nervous during testing	Re-test when calm and without speaking or moving during the test
	Irregular heartbeat (arrhythmia)	It is inappropriate for people with serious arrhythmia to use this Electronic Sphygmomanometer


6.14. Troubleshooting (2)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD shows low battery symbol 	Low Battery	Change the batteries
LCD shows "Er 0"	Pressure system is unstable before measurement	Don't move and try again
LCD shows "Er 1"	Fail to detect systolic pressure	
LCD shows "Er 2"	Fail to detect diastolic pressure	
LCD shows "Er 3"	Pneumatic system blocked or cuff is too tight during inflation	Apply the cuff correctly and try again
LCD shows "Er 4"	Pneumatic system leakage or cuff is too loose during inflation	
LCD shows "Er 5"	Cuff pressure above 300 mmHg	Measure again after five minutes. If the monitor is still abnormal, please contact the local distributor or the factory
LCD shows "Er 6"	More than 3 minutes with cuff pressure above 15 mmHg	
LCD shows "Er 7"	EEPROM accessing error	
LCD shows "Er 8"	Device parameter checking error	
LCD shows "Er A"	Pressure sensor parameter error	Take out batteries for five minutes, and then reinstall all batteries
No response when you press button or load battery	Incorrect operation or strong electromagnetic interference	

7. MAINTENANCE

- Do not drop this monitor or subject it to strong impact.
- Avoid high temperature and solarization. Do not immerse the monitor in water as this will result in damage to the monitor.
- If this monitor is stored near freezing, allow it to acclimate to room temperature before use.
- Do not attempt to disassemble this monitor and do not disconnect the cuff from the monitor.
- If you do not use the moitor for a long time, please remove the batteries.
- It is recommended the performance should be checked every 2 years or after it has been dropped. Please contact the service center.
- Clean the monitor with a dry, soft cloth or a soft cloth squeezed well after moistened with water or diluted detergent.
- Keep the cuff clean. It is recommended the cuff should be disinfected 2 times every week if needed (For example, in hospital or in clinic). Wipe the inner side (the side contacts skin) of the cuff by a soft cloth squeezed after moistened with a 3% solution of hydrogen peroxide, then dry the cuff by airing.
- No component can be maintained by user in the monitor.
- The external surfaces of the blood pressure monitors and the cuff are resistant to disinfection with a 3% solution of hydrogen peroxide.












8. SPECIFICATIONS

- Product name: Wrist Blood Pressure Monitor, model: MED-57
 - Classification: Internally powered, Type BF applied part, IP22, No AP or APG, Continuous operation
 - Machine size: Approx. 73 mm×62 mm×28,5 mm (2 7/8"×2 1/2"×1 1/8")
 - Wrist cuff circumference: 13,5cm-21,5cm
 - Weight: not more than 69,3 g ± 10% (exclude batteries)
 - Measuring method: Oscillometric method, automatic inflation and measurement
 - Memory volume: 30 times with time and date stamp
 - Power source: batteries: 2 ×1.5V  SIZE AAA
 - Measurement range: cuff pressure: 0-300 mmHg, systolic: 60-280 mmHg, diastolic: 20-199 mmHg, pulse rate: 40-200 beats/minute.
 - Accuracy: pressure: ±3mmHg, pulse rate: ±5%.
 - Environmental temperature for operation: 10°C-40°C (50°F-104°F).
 - Environmental humidity for operation: ≤85% RH.
 - Environmental temperature for storage and transport: -20°C-70°C (-4°F-122°F).
 - Environmental humidity for storage and transport: ≤85% RH.
 - Environmental pressure: 80kPa-105kPa.
 - Battery life: Approx 270 times.
 - Blood pressure monitor set: blood pressure monitor – 1 piece, wrist cuff – 1 piece, bladder – 1 piece, AAA batteries – 2 pieces, the instruction manual – 1 piece, box – 1 piece, a storage bag – 1 piece.
- NOTE:** These specifications are subject to change without notice.

9. APPLIED STANDARDS

The digital automatic blood pressure monitor corresponds to the below standards:
IEC 60601-1:2005/EN 60601-1:2006/AC:2010 (Medical electrical equipment – Part 1: General requirements for basic safety and essential performance),
IEC60601-1-2:2007/EN 60601-1-2:2007 /AC:2010 (Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests),
IEC 80601-2-30 : 2009+Cor.2010 (Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers),
EN 1060-1: 1995 + A1: 2002 + A2: 2009 (Non-invasive sphygmomanometers – Part 1: General requirements),
EN 1060-3: 1997 + A1: 2005 + A2: 2009 (Non-invasive sphygmomanometers – Part 3: Supplementary requirements for electro-mechanical blood pressure measuring systems).

10. SYMBOL INFORMATION

	THE OPERATION GUIDE MUST BE READ (The sign background colour: blue.The sign graphical symbol: white)
	WARNING
	TYPE BF APPLIED PARTS (The cuff is type BF applied part)
	ENVIRONMENT PROTECTION – Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice.
	MANUFACTURER'S NAME
	ARTICLE NUMBER
	SERIAL NUMBER
	OPERATING CONDITION, TEMPERATURE 10°C - 40°C
	STORAGE CONDITION, TEMPERATURE -20°C - 50°C
	KEEP DRY
	HOUSING INGRESS PROTECTION RATE: IP 22 (Protected from the penetration of solid bodies with dimension greater than 12.5 mm. Protected from the penetration of vertically falling water drops)

11. WARRANTY INFORMATION

Warranty period is 3 years from the date of purchase for monitor and 1 year for cuff. This warranty doesn't cover any damages caused by improper using, and also battery, and packaging. When a manufacturing defect is revealed during the warranty period a faulty unit would be repaired or, if repairing is impossible, replaced with another one.

Manufacturing date is in a serial number: WWYYXXXXX.

The manufacturer may change units partially or completely if necessary, without prior notice.

12. ELECTROMAGNETIC COMPATIBILITY INFORMATION

For all ME EQUIPMENT and ME SYSTEMS

Table 1 – Emission

Phenomenon	Compliance	Electromagnetic environment
RF emissions	CISPR 11 Group 1, Class B	Home healthcare environment
Harmonic distortion	IEC 61000-3-2 Class A	Home healthcare environment
Voltage fluctuations and flicker	IEC 61000-3-3 Compliance	Home healthcare environment

Table 2 – Enclosure Port

Phenomenon	Basic EMC standard	Immunity test levels Home Healthcare Environment
Electrostatic Discharge	IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Radiated RF EM field	IEC 61000-4-3	10 V/m 80 MHz – 2.7 GHz 80% AM at 1k Hz
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	Refer to table 3
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz

Table 3 – Proximity fields from RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Immunity test levels Professional healthcare facility environment
385	380-390	Pulse modulation 18 Hz, 27 V/m
450	430-470	FM, ±5 kHz deviation, 1 kHz sine, 28 V/m
710	704-787	Pulse modulation 217 Hz, 9 V/m
745		
780		
810	800-960	Pulse modulation 18 Hz, 28 V/m
870		
930		
1720	1700-1990	Pulse modulation 217 Hz, 28 V/m
1845		
1970		
2450	2400-2570	Pulse modulation 217 Hz, 28 V/m
5240	5100-5800	Pulse modulation 217 Hz, 28 V/m
5500		
5785		

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B.Well Swiss AG,
Bahnhofstrasse 24, 9443 Widnau, Switzerland
www.bwell-swiss.ch