

# User Manual

Glucometer

Model: ABG-B101



**ABG-B101**

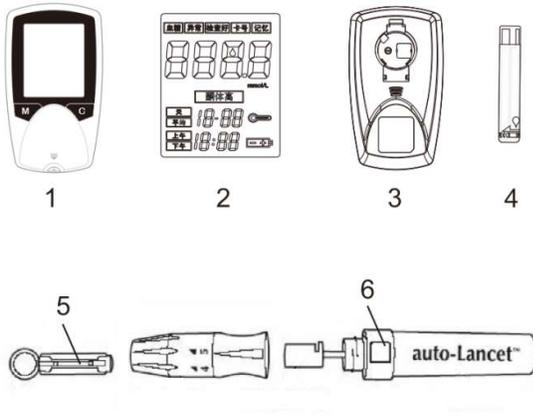
- Thank you very much for selecting our Glucometer model ABG-B101.
- To use the monitor correctly and safely, please read the manual thoroughly before operating it.
- Please store this manual for future reference.

## Safety information

The below signs might be in the user manual, labeling or other component. They are the requirement of standard and using.

	<b>PROHIBITION</b> Means Forbidden with detailed items expressed in words or figures within or beside the mark. Left one means General Forbidden.
	<b>MUST OBSERVE</b> Means Obligatory with detailed items expressed in words or figures within or beside the mark. Left one means General Compulsory.
	Refer to instructions manual/booklet.
	<b>IMPLICATION OF SYMBOL</b> Type-B applied part.
	Caution: Consult accompanying documents.
	Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
	Stand-by button
	Transport package shall be kept away from rain.
	Transport package shall not be exposed to sunlight.
	Indicates correct upright position of the transport package.
	Contents of the transport package are fragile therefore it shall be handled with care.
	Indicates temperature limits within which the transport package shall be stored and handled.
	Non-ionizing electromagnetic radiation
<b>M</b>	Memory icon, to recall memory
<b>C</b>	SET the unit
	Manufacturer

## Product components



- 1 Glucometer unit front
- 2 LCD display
- 3 Glucometer unit back
- 4 Glucose strip
- 5 Lancet
- 6 Lancing Pen

## Replace the batteries in following conditions

1. Slide off the battery cover.
2. Install the batteries CR2032 by matching the correct polarity.
3. Replace the cover.

Replace the batteries whenever the below happen:

The **Lo** shows.

The display dims.

The display does not light up.

### CAUTION

Remove batteries if the device is not likely to be used for some time.

The old battery is harmful to the environment, so please do not dispose with other daily trash.

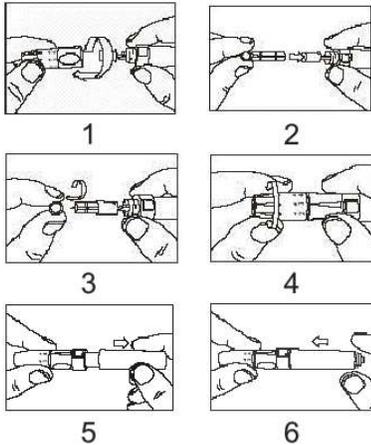
Remove the old battery from the device and follow your local recycling guidelines.

## Setting Date, time

**When use the unit in the first time, or change the battery, the unit will enter the Date&Time mode after it sound “Bi”.**

1. When enter the Date&Time setting mode, the Month will flash, press C to choose the right Month.
2. Press M to confirm the Month and enter the Day Setting.
3. Press C to choose the right parameter and press M to confirm
4. Set Time the same as step 3
5. After set all parameter, leave the unit 1 minute, it will turn off and save the setting.

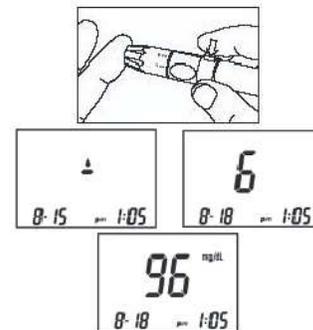
## Install Lancet and Lancing device



1. Take off the cover from lancing pen
2. Insert Lancet into the Lancing pen
3. Take off Lancet cover
4. Install the pen cover
5. Adjust the pen by pull the pen until it sound
6. Release the pen and it will adjust automatic

## How to measure Glucose

1. Take out one strip from strip box.
2. Insert the strip to the Unit, the Unit will turn on automatically
3. When the unit shows Blood icon “”, means begin to gather blood.
4. Clean finger with alcohol, and use Lancing pen to puncture finger.
5. Put the finger blood on the Strip, the unit will measure it after sound “Bi”.
6. The result will be shown after 6 seconds, and saved automatically.



## Recall records

1. Turn off the Glucometer
2. Press M button first time, it will display average value of latest 7 days.
3. Press M button the second time, it will display average value of latest 14 days.
4. Press M button the third time, it will display average value of latest 28 days.
5. Press the M button again, it will show the Latest 1 measurement, then the Latest 2,3,4...
6. Press C to Turn off the unit

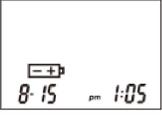
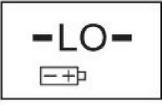
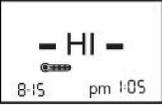
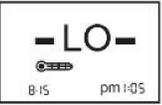
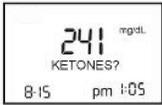
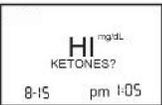
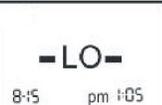
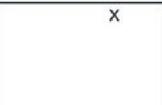
## Delete Memory

1. Press M to enter Memory mode.
2. Press C button 3 seconds to delete all memories
3. Leave the unit 10 second to turn off

## Maintenance

1. Do not put the unit under sun shine
2. Avoid touching water
3. Avoid intense shaking or dropping
4. Avoid dusty and unsuitable environment
5. Use mild wet clothing to remove the dirt

## Trouble Shooting

PROBLEM	SYMPTOM	CHECK THIS	REMEDY
Low batteries		Batteries are low.	Replace with new batteries Insert the batteries correctly
			
Error message		Operate temperature is too high	Put the unit under the right condition, the temperature between 10-40 C.
		Operate temperature is too low	Put the unit under the right condition, the temperature between 10-40 C.
		The glucose value is higher than 240mg/dL (13.2 mmol/L), please note it.	Take a measurement again, if the value is the same, consult your doctor.
		The glucose value is higher than 600 mg/dL(33.2 mmol/L), please note it	Take a measurement again, if the value is the same, consult your doctor.
		The glucose value is lower than 20 mg/dL(1.1mmol/L), please note it.	Take a measurement again, if the value is the same, consult your doctor.
		Wrong operation	Take a measurement again

## Specification

<b>Power supply</b>	3V CR2032
<b>Model</b>	ABG-B101
<b>Memory</b>	200 recalls
<b>Measurement range</b>	20-600mg/dL (1.1-33.3mmol/L)
<b>Measure time</b>	6 seconds
<b>Normal working condition</b>	Temperature:10°C~40°C Relative humidity: 40-85%
<b>Storage &amp; transportation condition</b>	Temperature:-10°C~+60°C Relative humidity:<=95%
<b>Weight</b>	Approx.48g
<b>Product dimensions</b>	92*53*19mm

The EMC declaration according to the requirement of EN 60601-1-2

**Cautions:**

User must regard EMC, please install and put in service ABG-B101 according to the EMC information provided in the accompanying documents.

Portable and mobile RF communications equipment can affect medical electrical equipment.

The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by MY WINGS as replacement parts for internal components, may result in increased Emissions or decreased Immunity of ABG-B101.

The performance of the EQUIPMENT and SYSTEM that was determined to be essential performance.

ABG-B101 should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, ABG-B101 should be observed to verify normal operation in the configuration in which it will be used.

Table 201-Guidance and manufacturer's declaration-electromagnetic emissions-for ABG-B101,as following table.

Table 202-Guidance and manufacturer's declaration-electromagnetic immunity -for ABG-B101, as following table.

Table 204 -Guidance and manufacturer's declaration -electromagnetic immunity -for ABG-B101, as following table.

Table 206 Recommended separation distances between portable and mobile RF communications equipment and ABG-B101, as following table.

Table 201

<b>Guidance and manufacturer's declaration – electromagnetic emissions</b>		
The ABG-B101 is intended for use in the electromagnetic environment specified below. The customer or the user of the ABG-B101 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The ABG-B101 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The ABG-B101 is suitable for use in all establishments, including domestic establishments.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Not applicable	

Table 202

<b>Guidance and manufacturer's declaration – electromagnetic immunity</b>			
The ABG-B101 is intended for use in the electromagnetic environment specified below. The customer or the user of the ABG-B101 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± (2, 4, 6) kV contact ± (2, 4, 8) kV air	± (2, 4, 6) kV contact ± (2, 4, 8) kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95 % dip in UT) for 0,5 cycle  40 % UT (60 % dip in UT) for 5 cycles  70 % UT (30 % dip in UT) for 25 cycles  <5 % UT (>95 % dip in UT) for 5 sec	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the ABG-B101 requires continued operation during power mains interruptions, it is recommended that the ABG-B101 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Table 204

Guidance and manufacturer's declaration – electromagnetic immunity			
The ABG-B101 is intended for use in the electromagnetic environment specified below.			
The customer or the user of the ABG-B101 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment –guidance
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 Vrms</p> <p>150 kHz to 80 MHz</p> <p>3 V/m</p> <p>80 MHz to 2,5 GHz</p>	<p>Not applicable</p> <p>3 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the ABG-B101, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d=1,2 \sqrt{P}$ $d=1,2 \sqrt{P} \text{ 80 MHz to 800 MHz}$ $d=2,3 \sqrt{P} \text{ 800 MHz to 2,5 GHz}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
<p>Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the ABG-B101 is used exceeds the applicable RF compliance level above, the ABG-B101 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the ABG-B101.</p>			
Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.			

Table 206

Recommended separation distances between portable and mobile RF communications equipment and the ABG-B101			
The ABG-B101 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the ABG-B101 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the ABG-B101 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum			
output power of transmitter W	Separation distance according to frequency of transmitter		
Electrical fast transient/burst IEC 61000-4-4	150 kHz to 80 MHz $d = 1, 2 \sqrt{p}$	80 MHz to 800 MHz $d = 1, 2 \sqrt{p}$	800 MHz to 2,5 GHz $d = 2, 3 \sqrt{p}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance <math>d</math> in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p>NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			