BT Communication Setting

1. RS232 Transmit agreement:

[9600 Baud rate] [None Party] [8 Bit data] [1 Bit stop]

Note: The above is for BP and Bluetooth communication format, no need for customers.

BLE UUID:

Receive: Service UUID: 0xFFF0, Characteristic UUID: 0xFFF1

Send: Service UUID: 0xFFF0, Characteristic UUID: 0xFFF2

2. Data Protocol:

2.1 About one complete instruction:

2.1.1 begin with 0xFD,0xFD; end with 0x0D,0x0A.

2.1.2 follow 0xFD is command code:

2.2Command define (Normal measure model)

After pressing the power button on the BP monitor, the monitor will send [0xA5] per 0.5 seconds; Which means waiting for the connection with the cellphone and the LCD screen will flash "bt" at the same time.

Note: If no need of the bluetooth function, just press any button and the monitor will start to measure.

When successfully connect the BP monitor with the cellphone by bluetooth, the cellphone will send [0xFD,0xFD,0xFA,0x05,0X0D, 0x0A] to inform the BP monitor of the connection and ready to measure.

At the same time, the BP monitor reply: [0xFD,0xFD,0x06, 0x0D, 0x0A], and begin to measure.

Note: If the cellphone did not receive the response from the BP monitor, it would send the command [0xFD,0xFD,0xFA,0x05,0X0D, 0x0A] repeatedly for 5 times. Or please turn off the BP monitor and re-connect.

Note: If the BP monitor did not receive the connect instruction

[0xFD,0xFD,0xFA,0x05,0X0D, 0x0A] within 180 seconds, it will start to measure without bluetooth function.

During the measurement, the BP monitor sends pressure signal:

[0xFD,0xFD,0xFB,PressureH, PressureL,0X0D, 0x0A]

Note: Pressure signal is 2 bytes, so the pressure is PressureH*256+PressureL, it will be sent 4 time every seconds.

When finish the measurement, the BP monitor send the below result:

[0xFD,0xFD,0xFC, SYS,DIA,PUL, 0X0D, 0x0A] ;test result

[0xFD,0xFD,0xFD,0x0E, 0X0D, 0x0A] ;E-E EEPROM Abnormal (The BP monitor is

abnormal, pls contact the provider)

[0xFD,0xFD,0xFD,0x01, 0X0D, 0x0A] ;E-1 the heart rate signal is too weak or the

pressure fall suddenly

[0xFD,0xFD,0xFD,0x02, 0X0D, 0x0A] ;E-2 other signal disturb [0xFD,0xFD,0xFD,0x03, 0X0D, 0x0A] ;E-3 inflation time too long

[0xFD,0xFD,0xFD,0x05, 0X0D, 0x0A] ;E-5 test result abnormal [0xFD,0xFD,0xFD,0x0C, 0X0D, 0x0A] ;E-C correction abnormal

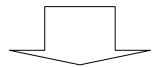
wrong way to measure, pls follow the manual and wear the cuff correctly, keep quiet and retest. (available for above 5 errors)

 $\hbox{\tt [0xFD,0xFD,0xFD,0x0B,\ 0X0D,\ 0x0A]} \qquad \hbox{\tt ;E-B low\ voltage\ (low\ power,\ pls\ change}$

batteries)

Note: SYS means systolic pressure, DIA means diastolic pressure. The BP monitor will transmit this date 5 time continuously.

E-1,E-2,E-3,E-4,E-E,E-B mean codes for errors.



When finish the measurement, cellphone can send power off command to turn off the bp monitor:

[0xFD,0xFD,0xFE, 0x06, 0X0D, 0x0A]

The BP monitor will reply:

will be power off.

[0xFD,0xFD,0x07, 0x0D, 0x0A]

Note: If the cellphone did not receive the reply command [0xFD,0xFD,0x07, 0x0D, 0x0A], it will send [0xFD,0xFD,0xFE, 0x06, 0X0D, 0x0A] repeatedly 5 times. When the BP monitor receive this command, it

When finish the measurement, cellphone can also send "start" command:

[0xFD,0xFD,0xFA,0x05,0X0D, 0x0A]

The BP monitor will reply:

[0xFD,0xFD,0x06, 0x0D, 0x0A]

Then begin the next measurement.