

# WatchBP O3 API Demo

# I. WatchBP O3 All Command

The screenshot shows the WatchBP O3 software interface. At the top, there's a 'Key:' field with 'tb\_key' and a 'Check' button. A red box highlights the 'Register the SDK' button. On the left, a vertical list of steps is numbered 1 to 5. Step 1 is 'Step1. Check the device's version (12 16 18 3E) and confirm the communication. Please decode to enable other btm function.' Step 2 is 'Step2. Read the device's datetime (12 16 18 26)'. Step 3 is 'Step3. Send PC Datetime (12 16 18 27)'. Step 4 is 'Step4. Read casual data (12 16 18 28)'. Step 5 is 'Step5. Read diagnostic data (12 16 18 29)'. Below these, there's a section for 'Step6. Read ABP data' with buttons for 'WH022 (12 16 18 30)' and 'WH023 (12 16 18 40)'. Further down are 'Step7. Read Memo data (12 16 18 31)' and 'Step8. Read ABP setting (12 16 18 F2)'. On the right, there's a 'Set ID or Clear data' section with an 'ID:' field containing 'tb\_id' and a 'Step9. Set ID (12 16 18 23)' button. Below that is a 'Clear Data' section with a 'Step10: Read ID (12 16 18 24) and decode' button and a 'Step11: Clear data' section with buttons for 'casual', 'diagnostic', 'memo', 'abp', and 'all'. At the bottom right is a 'Set ABP setting' section with a table of settings and a 'Step12. Send ABP setting' button.

Key: **tb\_key** Check **Register the SDK**

**1** Step1. Check the device's version (12 16 18 3E) and confirm the communication. Please decode to enable other btm function.

Disconnected!

**2** Step2. Read the device's datetime (12 16 18 26)

**3** Step3. Send PC Datetime (12 16 18 27)

**4** Step4. Read casual data (12 16 18 28)

**5** Step5. Read diagnostic data (12 16 18 29)

**Step6. Read ABP data**

WH022 (12 16 18 30)

WH023 (12 16 18 40)

Step7. Read Memo data (12 16 18 31)

Step8. Read ABP setting (12 16 18 F2)

Decode

**Set ID or Clear data**

ID: **tb\_id**  
(ID should only contain alphanumeric characters)

Step9. Set ID (12 16 18 23)

**Clear Data**

Step10: Read ID (12 16 18 24) and decode

Step11: Clear data

casual diagnostic memo abp all

**Set ABP setting**

	Period	Interval
Day	01	15
Night	22	15
Hi_infPressure	180	
Hide ABPM data	True	
Silent	True	

Step12. Send ABP setting

## Register the SDK

**watchBPO3Hid.InitWatchBPSDK(tb\_key.Text)**  
(API document 1.6.1.)

- 1** WriteCmd (WatchBPO3Hid.CmdEnum.RequestDeviceVer)  
(API document 1.6.2.)
- 2** WriteCmd (WatchBPO3Hid.CmdEnum.ReadDeviceDateTime)  
(API document 1.6.3.)

**3** WriteCmd (WatchBPO3Hid.CmdEnum.SendPCDateTime)  
(API document 1.6.4.)

**4** WriteCmd (WatchBPO3Hid.CmdEnum.ReadCasualData)  
(API document 1.6.5.)

**5** WriteCmd (WatchBPO3Hid.CmdEnum.ReadDiagnosticData)  
(API document 1.6.6.)

# I. WatchBP O3 All Command

**Key:**

listBox\_data

Step1. Check the device's version (12 16 18 3E) and confirm the communication. Please decode to enable other btn function.

Disconnected!

Step2. Read the device's datetime (12 16 18 26)

Step3. Send PC Datetime (12 16 18 27)

Step4. Read casual data (12 16 18 28)

Step5. Read diagnostic data (12 16 18 29)

**Step6. Read ABP data**

WH022 (12 16 18 30)

WH023 (12 16 18 40)

Step7. Read Memo data (12 16 18 31)

Step8. Read ABP setting (12 16 18 F2)

**Set ID or Clear data**

ID:   
(ID should only contain alphanumeric characters)

Step9. Set ID (12 16 18 23)

**Clear Data**

Step10: Read ID (12 16 18 24) and decode

Step11: Clear data

**Set ABP setting**

	Period	Interval
Day	01	15
Night	22	15
Hi_infPressure	180	
Hide ABPM data	True	
Silent	True	

Step12. Send ABP setting

**6** WriteCmd (WatchBPO3Hid.CmdEnum.ReadABPData)  
(API document 1.6.7.)

**7** WriteCmd (WatchBPO3Hid.CmdEnum.ReadABPDataE315)  
(API document 1.6.8.)

**8** WriteCmd (WatchBPO3Hid.CmdEnum.ReadMemoData)  
(API document 1.6.9.)

**9** WriteCmd (WatchBPO3Hid.CmdEnum.ReadABPSetting)  
(API document 1.6.10.)

**10** SendIDAndClearData (tb\_id.Text, false, false, false, false)  
(API document 1.6.11.)

**11** WriteCmd (WatchBPO3Hid.CmdEnum.ReadID)  
(API document 1.6.12.)

# I. WatchBP O3 All Command

The screenshot shows the WatchBP O3 software interface. It includes a 'Key:' field with 'tb\_key' and a 'Check' button. A central 'listBox\_data' area is empty. On the right, there's a 'Set ID or Clear data' section with an 'ID:' field containing 'tb\_id' and a 'Step9. Set ID (12 16 18 23)' button. Below this is a 'Clear Data' section with buttons for 'Step10: Read ID (12 16 18 24) and decode' and 'Step11: Clear data'. The 'Step11: Clear data' section has buttons for 'casual', 'diagnostic', 'memo', 'abp', and 'all'. Below these are dropdown menus for 'Day', 'Night', 'Hi\_infPressure', 'Hide ABPM data', and 'Silent'. At the bottom right, there's a 'Step12. Send ABP setting' button. The interface also shows a 'Disconnected!' status and several steps for reading device data (Step1 to Step8).

**12** SendIDAndClearData (tb\_id.Text, true, false, false, false)  
(API document 1.6.13.)

**13** SendIDAndClearData (tb\_id.Text, false, true, false, false)  
(API document 1.6.14.)

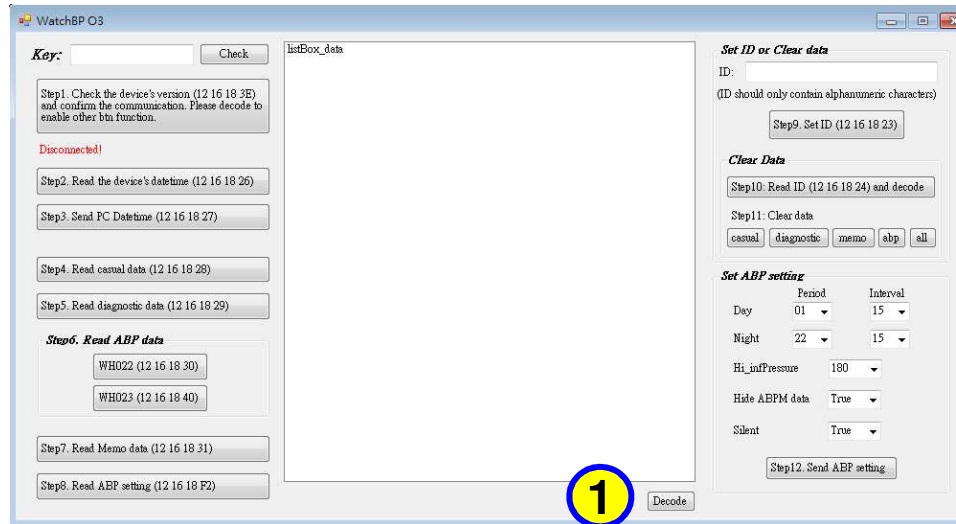
**14** SendIDAndClearData (tb\_id.Text, false, false, true, false)  
(API document 1.6.15.)

**15** SendIDAndClearData (tb\_id.Text, false, false, false, true)  
(API document 1.6.16.)

**16** SendIDAndClearData (tb\_id.Text, true, true, true, true)  
(API document 1.6.17.)

**17** SendABPSetting (abpSetting)  
(API document 1.6.18.)

## II. WatchBP O3 Parser



1

Step.	Command	Parser	API Doc.
1.	Check the device's version	DeviceInfoParser.ParseDeviceName (byteArray, out str)	5.3.1
2.	Read the device's datetime	DeviceInfoParse.ParseDeviceDateTime (byteArray, out str)	5.3.3
4.	Read casual data	DataParser.ParseUsuData (byteArray, out str)	6.4.1
5.	Read diagnostic data	DataParser.ParseDiagData (byteArray, out dataLst)	6.4.2
6.	Read ABP data – WH022	DataParser.ParseABPData (byteArray, out dataLst)	6.4.3
6.	Read ABP data – WH023	DataParser.ParseABPDataE315 (byteArray, out dataLst)	6.4.3
7.	Read memo data	DataParser.ParseMemoData (byteArray, out strLst)	6.4.4
8.	Read ABP setting	DataParser.ParseABPSetting(byteArray, out abpSetting)	5.3.4
10.	Read ID	DeviceInfoParser.ParseDeviceID(byteArray, out str)	5.3.2