

WatchBP O3 API Demo

I. WatchBP O3 All Command

The screenshot shows the WatchBP O3 application window. At the top left, there is a 'Key:' field with 'tb_key' entered and a 'Check' button. A central area is labeled 'Register the SDK' in an orange box. On the left side, a list of steps is shown, with steps 1 through 5 circled in blue. Step 1 is 'Step1. Check the device's version (12 16 18 3E) and confirm the communication. Please decode to enable other btn function.' Below it, a red 'Disconnected!' message is visible. 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, 'Step6. Read ABP data' is shown with buttons for 'WH021 / WH022 (12 16 18 30)' and 'WH025 (12 16 18 40)'. Further down are 'Step7. Read Memo data (12 16 18 31)' and 'Step8. Read ABP setting (12 16 18 F2)'. At the bottom right, there is a 'Decode' button. On the right side of the window, there are sections for 'Set ID or Clear data' with an 'ID:' field containing 'tb_id' and a 'Step9. Set ID (12 16 18 23)' button. Below that is 'Clear Data' with a 'Step10: Read ID (12 16 18 24) and decode' button and 'Step11: Clear data' with buttons for 'casual', 'diagnostic', 'memo', 'abp', and 'all'. Then 'Set ABP setting' with dropdowns for 'Day' (01), 'Night' (22), 'Period' (15), and 'Interval' (15), and input fields for 'Hi_infPressure' (180), 'Hide ABPM data' (True), and 'Silent' (True). A 'Step12. Send ABP setting' button is below. Finally, 'Read BPM setting' with a 'Step13. Read BPM setting' button.

Register the SDK

`watchBPO3Hid.InitWatchBPSDK(tb_key.Text)`
(API document 1.6.1.)

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.)

1 `WriteCmd (WatchBPO3Hid.CmdEnum.RequestDeviceVer)`
(API document 1.6.2.)

2 `WriteCmd (WatchBPO3Hid.CmdEnum.ReadDeviceDateTime)`
(API document 1.6.3.)

I. WatchBP O3 All Command

The screenshot shows the WatchBP O3 software interface. On the left, there's a 'Key:' field with 'tb_key' and a 'Check' button. Below it, a list of steps is shown, with steps 6 through 9 highlighted by blue circles. Step 6 is 'Step6. Read ABP data' with buttons for 'WH021 / WH022 (12 16 18 30)' and 'WH025 (12 16 18 40)'. Step 7 is 'Step7. Read Memo data (12 16 18 31)'. Step 8 is 'Step8. Read ABP setting (12 16 18 F2)'. Step 9 is 'Step9. Set ID (12 16 18 23)'. On the right, there's a 'Set ID or Clear data' section with an 'ID:' field containing 'tb_id' and a 'Clear Data' section with buttons for 'Step10: Read ID (12 16 18 24) and decode' and 'Step11: Clear data'. Below that, there's a 'Set ABP setting' section with dropdowns for 'Day', 'Night', 'Hi_infPressure', 'Hide ABPM data', and 'Silent', and a 'Step12. Send ABP setting' button. At the bottom right, there's a 'Read BPM setting' section with a 'Step13. Read BPM setting' button. A 'Decode' button is at the bottom center.

Key: Check

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

WH021 / WH022 (12 16 18 30)

WH025 (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

casual diagnostic memo abp all

Set ABP setting

	Period	Interval
Day	<input type="text" value="01"/>	<input type="text" value="15"/>
Night	<input type="text" value="22"/>	<input type="text" value="15"/>
Hi_infPressure	<input type="text" value="180"/>	
Hide ABPM data	<input type="text" value="True"/>	
Silent	<input type="text" value="True"/>	

Step12. Send ABP setting

Read BPM setting

Step13. Read BPM setting

Decode

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. On the left, there's a 'Key' field with 'tb_key' and a 'Check' button. Below it, a list of steps: Step1 (Check device version), Step2 (Read device datetime), Step3 (Send PC Datetime), Step4 (Read casual data), Step5 (Read diagnostic data), Step6 (Read ABP data) with sub-steps WH021/WH022 and WH025, Step7 (Read Memo data), and Step8 (Read ABP setting). In the center is a 'listBox_data' area. On the right, there's a 'Set ID or Clear data' section with an 'ID' field containing 'tb_id'. Below it are buttons for 'Step9. Set ID' and 'Clear Data'. The 'Clear Data' section includes 'Step10: Read ID and decode' and 'Step11: Clear data' with buttons for 'casual', 'diagnostic', 'memo', 'abp', and 'all'. Further down are 'ABP settings' for Day, Night, Hi_infPressure, Hide ABPM data, and Silent. At the bottom right, there's a 'Step12. Send ABP setting' button and a 'Read BPM setting' section with a 'Step13. Read BPM setting' button. A 'Decode' button is at the bottom center. Circled numbers 12 through 18 are overlaid on the interface, corresponding to the API calls listed below.

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.)

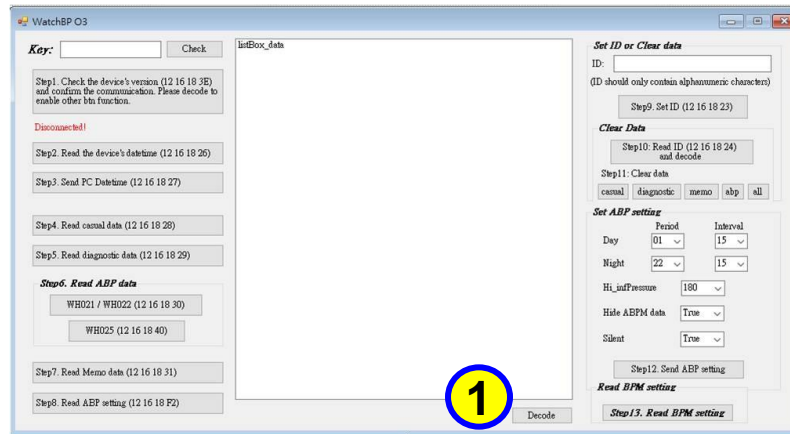
15 SendIDAndClearData (tb_id.Text, false, false, false, true)
(API document 1.6.16.)

16 SendIDAndClearData (tb_id.Text, true, true, true, true)
(API document 1.6.17.)

17 SendABPSetting (abpSetting)
(API document 1.6.18.)

18 ReadBPMSetting (bpmSetting)
(API document 1.6.19.)

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
9.	Read BPM setting	DataParser.ParseBPMSetting(byteArray,out bpmSetting)	5.3.5
10.	Read ID	DeviceInfoParser.ParseDeviceID(byteArray, out str)	5.3.2