

WitMotion Shenzhen Co., Ltd Datasheet

Bluetooth AHRS IMU sensor | BWT901CL

The Robust Acceleration, Angular velocity, Angle & Magnetic filed Detector

The BWT901CL is a Bluetooth 2.0 multi-sensor device, detecting acceleration, angular velocity, air pressure angle as well as magnetic filed. The robust housing and the small outline makes it perfectly suitable for industrial applications such as condition monitoring and predictive maintenance. Configuring the device enables the customer to address a broad variety of application by interpreting the sensor data by smart algorithms and Kalman filtering.

BUILT-IN SENSORS







Accelerometer

Gyroscope

Magnetometer



Tutorial Link

Google Drive

Link to instructions DEMO: WITMOTION Youtube Channel BWT901BCL Playlist

If you have technical problems or cannot find the information that you need in the provided documents, please contact our support team. Our engineering team is committed to providing the required support necessary to ensure that you are successful with the operation of our AHRS sensors.

Contact

Technical Support Contact Info

Application

- AGV Truck
- Platform Stability
- Auto Safety System
- 3D Virtual Reality
- Industrial Control
- Robot
- Car Navigation
- UAV
- Truck-mounted Satellite Antenna Equipment



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1 Overview

BWT901CL's scientific name is AHRS IMU sensor. A sensor measures 3-axis angle, angular velocity, acceleration, magnetic field. Its strength lies in the algorithm which can calculate three-axis angle accurately.

BWT901BCL is an CE certified accelerometer. It is employed where the highest measurement accuracy is required. BWT901BCL offers several advantages over competing sensor:

- Heated for best data availability: new WITMOTION patented zero-bias automatic detection calibration algorithm outperforms traditional accelerometer sensor
- High precision Roll Pitch Yaw (X Y Z axis) Acceleration + Angular Velocity + Angle + Air Pressure + Magnetic Field output
- Low cost of ownership: remote diagnostics and lifetime technical support by WITMOTION service team
- Developed tutorial: providing manual, datasheet, Demo video, free software for Windows computer, APP for Android smartphones, and sample code for MCU integration including 51 serial, STM32, Arduino, Matlab, Raspberry Pi, communication protocol for project development
- WITMOTION sensors have been praised by thousands of engineers as a recommended attitude measurement solution



2 Features

- Built-in BWT901B module, for detailed parameters, please refer to the instructions.
- The baud rate of this device is 115200 and cannot be changed.
- The interface of this product only leads to a serial port and Bluetooth EDR,
- The module consists of a high precision gyroscope, accelerometer and geomagnetic field sensor. The product can solve the current real-time motion posture of the module quickly by using the high-performance microprocessor, advanced dynamic solutions and Kalman filter algorithm.
- The advanced digital filtering technology of this product can effectively reduce the measurement noise and improve the measurement accuracy.
- Maximum 200Hz data output rate. Output content can be arbitrarily selected, the output speed 0.2HZ~ 200HZ adjustable.



3 Specification

3.1 Parameter

| Parameter | Specification |
|--------------------|--|
| > Voltage | 3.3V-5V |
| > Current | <40mA |
| > Battery | 250mAh, 3.7V |
| Working hour | A. Play 4h at 1 charge (battery) B. Power source of 5V |
| > Size | 51.3mm x36mm X15mm/ 2.02" x 1.41" x 0.59" |
| > Data | Angle: X Y Z, 3-axis Acceleration: X Y Z, 3-axis Angular Velocity: X Y Z, 3-axis Magnetic Field: X Y Z, 3-axis Time, Quaternion Air Pressure |
| > Output frequency | 0.2Hz200Hz |
| > Interface | Serial TTL level, Baud rate115200 (default, can not be changed) Interface standard: Type-C |
| > Bluetooth | Range: ≤10m Bluetooth module: HC-06 Version: EDR Bluetooth 2.0 |



| Measurement Range & A | Measurement Range & Accuracy | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Sensor | Measurement Range | Accuracy/ Remark | | | | | | | | | | |
| > Accelerometer | X, Y, Z, 3-axis: ±16g | Accuracy: 0.01g Resolution: 16bit Stability: 0.005g | | | | | | | | | | |
| > Gyroscope | X, Y, Z, 3-axis ±2000°/s | Resolution: 16bit Stability: 0.05°/s | | | | | | | | | | |
| > Magnetometer | X, Y, Z, 3-axis ±4900μT | 0.15μT/LSB typ. (16-bit) | | | | | | | | | | |
| > Angle/ Inclinometer | X, Y, Z, 3-axis X, Z-axis: ±180° Y ±90° (Y-axis 90° is singular point) | Accuracy:X, Y-axis: 0.05° Z-axis: 1°(after magnetic calibration) | | | | | | | | | | |
| > Barometer | 1 axis | | | | | | | | | | | |



3.2 Size



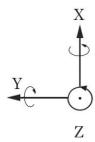
| Parameter | Specification | Tolerance | Comment | |
|-----------|---------------|-----------|-------------------|--|
| Length | 51.3 | ±0.2 | | |
| Width | 36 | ±0.2 | Unit: millimeter. | |
| Height | 15 | ±0.2 | | |
| Weight | 20 | ±0.2 | Unit: gram | |



3.3 Axial Direction

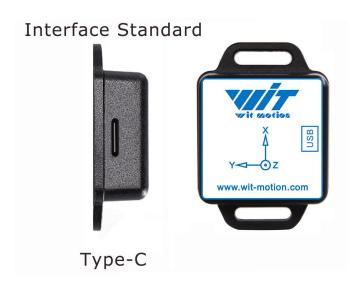
The coordinate system used for attitude angle settlement is the northeast sky coordinate system. Place the module in the positive direction, as shown in the figure below, direction forward is the X-axis, the direction left is the Y-axis, and direction upward is the Z-axis. Euler angle represents the rotation order of the coordinate system when the attitude is defined as Z-Y-X, that is, first turn around the Z-axis, then turn around the Y-axis, and then turn around the X-axis. Counterclockwise rotation is positive.







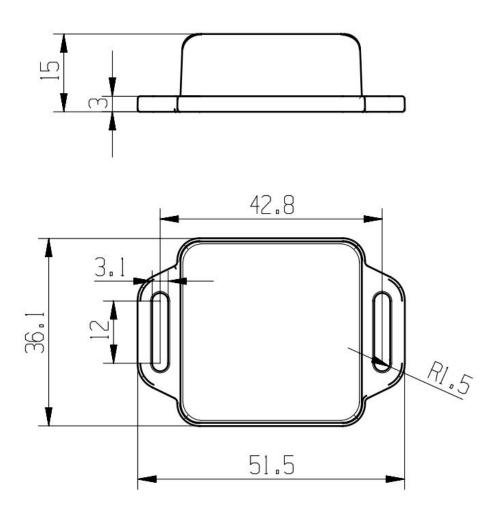
4 Pin Definition



| PIN | Function |
|----------|--|
| > Type-C | 3.3-5V input supply Wired Connection with TTL Singal Communication |



5 Casing Specification





6 Communication Protocol

Level: TTL level

Baud rate: 115200 (default, cannot be changed), stop bit and parity bit 0

6.1 Output Data Format

6.1.1 Time Output

| UX33 | 0x55 | 0x50 | YY | MM | DD | hh | mm | ss | msL | msH | SUM |
|------|------|------|----|----|----|----|----|----|-----|-----|-----|
|------|------|------|----|----|----|----|----|----|-----|-----|-----|

YY: Year, 20YY Year

MM: Month
DD: Day
hh: hour
mm: minute
ss: Second
ms: Millisecond

Millisecond calculate formula:

ms=((msH < < 8)|msL)

Sum=0x55+0x51+YY+MM+DD+hh+mm+ss+ms+VL



6.1.2 Acceleration Output

| 0x55 | 0x51 | AxL | AxH | AvL | AvH | AzL | AzH | TL | TH | SUM |
|------|------|-----|-----|---------|-----|-----|-----|----|----|-----|
| | | | | · · / — | , | | | | | |

Calculate formula:

 $a_x = ((AxH < < 8)|AxL)/32768*16g(g is Gravity acceleration, 9.8m/s²)$

 $a_y = ((AyH < < 8)|AyL)/32768*16g(g is Gravity acceleration, 9.8m/s²)$

 $a_z = ((AzH < < 8)|AzL)/32768*16g(g is Gravity acceleration, 9.8m/s²)$

Temperature calculated formula:

T=((TH<<8)|TL)/100 ℃

Checksum:

Sum=0x55+0x51+AxH+AxL+AyH+AyL+AzH+AzL+TH+TL

Note:

1. The data is sent in hexadecimal, not ASCII code.

Each data is transmitted in turn of low byte and high byte, and the two are combined into a signed short type data.

For example, X-axis acceleration data Ax, where AxL is low byte and AxH is high byte. The conversion method is as follows:

Assuming that Data is actual data, DataH is its high byte, and DataL is its low byte, then: Data = (short) (DataH $<< 8 \mid$ DataL).

It must be noted that DataH needs to be coerced into a signed short data and then shifted, and the data type of Data is also a signed short type, so that it can represent negative numbers.

6.1.3 Angular Velocity Output

| 0x55 | 0x52 | wxL | wxH | wvL | wvH | wzL | wzH | VI | VH | SUM |
|------|------|-------|-----|-----------------|-----|------------------|-----------|-----|-------|--------|
| UNDO | 0002 | VV/_ | *** | , vv y <u>L</u> | | , vv <u>~ </u> _ | V V Z I I | V L | V 1 1 | , 5011 |

Calculated formula:

 $w_x = ((wxH < < 8)|wxL)/32768*2000(°/s)$

 $w_y = ((wyH < < 8)|wyL)/32768*2000(°/s)$

 $w_z = ((wzH < < 8)|wzL)/32768*2000(°/s)$

Battery Voltage calculated formula:

Battery Voltage=((VH<<8)|VL) /100 V

Checksum:

Sum = 0x55 + 0x52 + wxH + wxL + wyH + wyL + wzH + wzL + VH + VL



6.1.4 Angle Output

Calculated formula:

Roll(X axis)Roll=((RollH<<8)|RollL)/32768*180(°)

Pitch(Y axis)Pitch=((PitchH<<8)|PitchL)/32768*180(°)

Yaw(Z axis)Yaw = ((YawH < < 8)|YawL)/32768*180(°)

Version calculated formula:

Version=(VH<<8)|VL

Checksum:

Sum=0x55+0x53+RollH+RollL+PitchH+PitchL+YawH+YawL+VH+VL

Note:

- 1. The coordinate system used for attitude angle settlement is the northeast sky coordinate system. Place the module in the positive direction, as the figure shown in Chapter 3.3, direction left is the Y-axis, the direction forward is the X-axis, and direction upward is the Z-axis. Euler angle represents the rotation order of the coordinate system when the attitude is defined as Z-Y-X, that is, first turn around the Z-axis, then turn around the Y-axis, and then turn around the X-axis.
- 2. Although the range of the roll angle is ± 180 degrees, in fact, since the coordinate rotation sequence is Z-Y-X, when expressing the attitude, the range of the pitch angle (Y-axis) is only ± 90 degrees, and it will change to less than 90 after exceeding 90 degrees Degrees while making the X-axis angle greater than 180 degrees. For detailed principles, please Google Euler angle and posture-related information.
- 3. Since the three axes are coupled, they will show independent changes only at small angles, and the attitude angles will change at large angles. For example, when the Y-axis is close to 90 degrees, even if the attitude only rotates around the Y-axis, the angle of the axis will also change greatly, which is an inherent problem with Euler angles indicating attitude.



6.1.5 Magnetic Output

| 0x55 | 0x54 | HxI | HxH | HvI | HvH | HzI | HzH | TI | TH | SUM |
|-------|------|-----|-----|-----------|-----|-----|-----|----|----|-----|
| 0,100 | 0,70 | / | | ı · · , — | , | | — | | | |

Calculated formula:

Magnetic(x axis)Hx=((HxH<<8)|HxL)

Magnetic(y axis)Hy=((HyH <<8)| HyL)

Magnetic(z axis)Hz = ((HzH < < 8)|HzL)

Temperature calculated formula:

T=((TH<<8)|TL) /100℃

Checksum:

Sum = 0x55 + 0x53 + HxH + HxL + HyH + HyL + HzH + HzL + TH + TL

6.1.6 Quaternion

| 0x55 | 0x59 | Q0L | Q0H | Q1L | Q1H | Q2L | Q2H | Q3L | Q3H | SUM |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | _ | _ | _ | - | | | | |

Calculated formula:

Q0=((Q0H<<8)|Q0L)/32768

Q1=((Q1H<<8)|Q1L)/32768

Q2=((Q2H<<8)|Q2L)/32768

Q3=((Q3H<<8)|Q3L)/32768

Checksum:

Sum = 0x55 + 0x59 + Q0L + Q0H + Q1L + Q1H + Q2L + Q2H + Q3L + Q3H



6.2 Config Commands

Reminder:

1. Data format

| 0xFF | 0xAA | Address | DataL | DataH |
|------|------|---------|-------|-------|
| | | | | |

6.2.1 Register Address

| Address | Symbol | Meaning |
|---------|----------|------------------------------|
| 0x00 | SAVE | Save |
| 0x01 | CALSW | Calibration |
| 0x02 | RSW | Return data content |
| 0x03 | RATE | Return data Speed |
| 0x04 | BAUD | Baud rate |
| 0x05 | AXOFFSET | X axis Acceleration bias |
| 0x06 | AYOFFSET | Y axis Acceleration bias |
| 0x07 | AZOFFSET | Z axis Acceleration bias |
| 0x08 | GXOFFSET | X axis angular velocity bias |
| 0x09 | GYOFFSET | Y axis angular velocity bias |
| 0x0a | GZOFFSET | Z axis angular velocity bias |
| 0x0b | HXOFFSET | X axis Magnetic bias |
| 0x0c | HYOFFSET | Y axis Magnetic bias |
| 0x0d | HZOFFSET | Z axis Magnetic bias |
| 0x1a | IICADDR | IIC address |
| 0x1b | LEDOFF | Turn off LED |
| 0x1c | GPSBAUD | GPS baud rate |
| 0x30 | MMYY | Month , Year |
| 0x31 | HHDD | Hour , Day |
| 0x32 | SSMM | Second , Minute |
| 0x33 | MS | Millisecond |
| 0x34 | AX | X axis Acceleration |
| 0x35 | AY | Y axis Acceleration |
| 0x36 | AZ | Z axis Acceleration |
| 0x37 | GX | X axis angular velocity |
| 0x38 | GY | Y axis angular velocity |
| 0x39 | GZ | Z axis angular velocity |
| 0x3a | HX | X axis Magnetic |
| 0x3b | HY | Y axis Magnetic |



| 0x3c | HZ | Z axis Magnetic |
|------|-------|-----------------|
| 0x3d | Roll | X axis Angle |
| 0x3e | Pitch | Y axis Angle |
| 0x3f | Yaw | Z axis Angle |
| 0x40 | TEMP | Temperature |
| 0x51 | Q0 | Quaternion Q0 |
| 0x52 | Q1 | Quaternion Q1 |
| 0x53 | Q2 | Quaternion Q2 |
| 0x54 | Q3 | Quaternion Q3 |



6.2.2 Save Configuration

| 0xFF | 0xAA | 0x00 | SAVE | 0x00 |
|------|------|------|------|------|
| - | _ | | _ | |

SAVE: Save

0: Save current configuration

1: set to default setting

6.2.3 Calibrate

| 0xFF 0xAA 0x01 | . CALSW 0x00 |
|----------------|--------------|
|----------------|--------------|

CALSW: Set calibration mode

0: Exit calibration mode

1: Enter Gyroscope and Accelerometer calibration mode

2: Enter magnetic calibration mode

6.2.4 Installation Direction

| 0xFF 0xAA 0x23 DIRECTION 0x00 |
|-------------------------------|
|-------------------------------|

DIRECTION: set installation direction

0: set to horizontal installation

1: set to vertical installation

6.2.5 Sleep/ Wake up

| 0xFF | 0xAA | 0x22 | 0x01 | 0x00 |
|------|------|------|------|------|
|------|------|------|------|------|

After sending the command, the module enters the sleep (standby) state, and once again, the module enters the working state from the standby state.



6.2.6 Algorithm Transition

| 0xFF | 0xAA | 0x24 | ALG | 0x00 |
|------|------|------|-----|------|
| | | | | |

ALG: 6-axis/ 9-axis algorithm transition

0: switch to 9-axis algorithm 1: switch to 6-axis algorithm

6.2.7 Gyroscope Automatic Calibration

| 0xFF 0xAA | 0x63 | GYRO | 0x00 | |
|-----------|------|------|------|--|
|-----------|------|------|------|--|

GYRO: gyroscope automatic calibration

0: set to gyroscope automatic calibration

1: removed to gyroscope automatic calibration



6.2.8 Return Content

| | | 0xFF | 0xAA | 0x02 | RSWL | RSW | H | |
|----------------------|------|------|------|------|------|------|------|------|
| RSWL byte definition | | | | | | | | |
| byte | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Name | 0x57 | 0x56 | 0x55 | 0x54 | 0x53 | 0x52 | 0x51 | 0x50 |
| | pack |
| default | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |

RSWH byte definition

| byte | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|---------|---|---|---|---|---|------|------|------|
| Name | X | Χ | Χ | Χ | Χ | 0x5A | 0x59 | 0x58 |
| | | | | | | pack | pack | pack |
| default | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

X is an undefined value.

0x50 pack: time pack

0: Not output 0X50 pack

1: Output 0X50 pack

0x51 pack: Acceleration pack

0: Not output 0x51 pack

1: Output 0x51 pack

0x52 pack: Angular velocity pack

0: Not output 0x52 packet

1: Output 0x52 pack

0x53 pack: Angle Pack

0: Not output 0x53 pack

1: Output 0x53 pack

0x54 pack: Magnetic Pack

0: Not output 0x54 pack

1: Output 0x54 pack

0x59 pack: Quaternion Pack

0: Not output 0x59 pack

1: Output 0x59 pack



6.2.9 Return Rate

| 0xFF | 0xAA | 0x03 | RATE | 0x00 |
|------|------|------|------|------|
| | | | | |

RATE: return rate

0x01:0.2Hz

0x02: 0.5Hz

0x03: 1Hz

0x04: 2Hz

0x05: 5Hz

0x06: 10Hz(default)

0x07: 20Hz

0x08: 50Hz

0x09: 100Hz

0x0a: 125Hz

0x0b: 200Hz

0x0c: Single

0x0d: Not output

After the setup is complete, need to click save, and re-power the module to take effect.



6.2.10 Set X Axis Acceleration Bias

| 0xFF | 0xAA | 0x05 | AXOFFSETL | AXOFFSETH |
|------|------|------|-----------|-----------|
| | | | | |

AXOFFSETL: X axis Acceleration bias low byte AXOFFSETH: X axis Acceleration bias high byte AXOFFSET= (AXOFFSETH <<8) | AXOFFSETL

Note: After setting the acceleration bias, the output value of the acceleration

is the sensor measured value minus the bias value.

6.2.11 Set Y Axis Acceleration Bias

| | 0xFF | 0xAA | 0x06 | AYOFFSETL | AYOFFSETH |
|--|------|------|------|-----------|-----------|
|--|------|------|------|-----------|-----------|

AYOFFSETL: Y axis Acceleration bias low byte AYOFFSETH: Y axis Acceleration bias high byte AYOFFSET= (AYOFFSETH <<8) | AYOFFSETL

Note: After setting the acceleration bias, the output value of the acceleration

is the sensor measured value minus the bias value.

6.2.12 Set Z Axis Acceleration Bias

| l | | l | l | |
|---------|-------|-------|-----------|-----------|
| ∣∩∨FF | ⊢∩∨ΔΔ | ∣∩∨∩フ | Δ70FFSFTI | AZOFFSETH |
| 0 / 1 1 | | 0.007 | AZOITSLIL | |

AZOFFSETL: Z axis Acceleration bias low byte AZOFFSETH: Z axis Acceleration bias high byte AZOFFSET= (AZOFFSETH <<8) | AZOFFSETL

Note: After setting the acceleration bias, the output value of the acceleration

is the sensor measured value minus the bias value.



6.2.13 Set X Axis Angular Velocity Bias

| 0xFF | 0xAA | 0x08 | GXOFFSETL | GXOFFSETH |
|------|------|------|-----------|-----------|
| | | | | |

GXOFFSETL: Set X axis Angular velocity bias low byte GXOFFSETH: Set Y axis Angular velocity bias high byte

GXOFFSET= (GXOFFSETH <<8) | GXOFFSETL

Note: After setting the angular velocity zero deviation, the output value of the angular velocity is the sensor measurement value minus the zero deviation value.

6.2.14 Set Y Axis Angular Velocity Bias

| 0xFF 0xAA 0x09 GYOFFSETL GYOFFSETH |
|--|
|--|

GYOFFSETL: Set X axis Angular velocity bias low byte GYOFFSETH: Set X axis Angular velocity bias high byte

GYOFFSET= (GYOFFSETH <<8) | GYOFFSETL

Note: After setting the angular velocity zero deviation, the output value of the angular velocity is the sensor measurement value minus the zero deviation value.

6.2.15 Set Z Axis Angular Velocity Bias

| 0xFF 0xAA 0x0a | GXOFFSETL | GXOFFSETH |
|----------------|-----------|-----------|
|----------------|-----------|-----------|

GZOFFSETL: Set Z axis Angular velocity bias low byte GZOFFSETH: Set Z axis Angular velocity bias low byte

GZOFFSET= (GZOFFSETH << 8) | GZOFFSETL

Note: After setting the angular velocity zero deviation, the output value of the angular velocity is the sensor measurement value minus the zero deviation value.



6.2.16 Set X Axis Magnetic Bias

| 0xFF | 0xAA | 0x0b | HXOFFSETL | HXOFFSETH |
|------|------|------|-----------|-----------|
| | | | | |

HXOFFSETL: Set X axis magnetic bias low byte HXOFFSETH: Set X axis magnetic bias high byte HXOFFSET= (HXOFFSETH <<8) | HXOFFSETL

Note: After setting the magnetic field bias, the output value of the magnetic

field is the sensor measured value minus the zero bias value.

6.2.17 Set Y Axis Magnetic Bias

| 0xFF | 0xAA | 0x0c | HXOFFSETL | HXOFFSETH |
|------|------|------|-----------|-----------|
| l | | | | |

HXOFFSETL: Set Y axis magnetic bias low byte HXOFFSETH: Set Y axis magnetic bias high byte HXOFFSET= (HXOFFSETH <<8) | HXOFFSETL

Note: After setting the magnetic field bias, the output value of the magnetic

field is the sensor measured value minus the zero bias value.

6.2.18 Set Z Axis Magnetic Bias

| 0xFF | 0xAA | 0x0d | HXOFFSETL | HXOFFSETH |
|------|------|------|-----------|-----------|
|------|------|------|-----------|-----------|

HXOFFSETL: Set Y axis magnetic bias low byte HXOFFSETH: Set Z axis magnetic bias high byte HXOFFSET= (HXOFFSETH <<8) | HXOFFSETL

Note: After setting the magnetic field bias, the output value of the magnetic

field is the sensor measured value minus the zero bias value.

6.2.19 LED

| 0xFF | 0xAA | 0x1b | LEDOFF | 0x00 |
|------|------|------|--------|------|
|------|------|------|--------|------|

LEDOFF:

0x01: Turn off LED 0x00: Turn on LED

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7. Certification

