

## LW-360HR Report Format

### Report format of Period report messages:

Protocol Version	Command ID	Longitude	Latitude	GPS Fix Status & Report Type	Reserved	Reserved	Battery Capacity	Date & Time	Beacon ID	Beacon Type	RSSI	Tx Power	Heart Rate	Skin Temperature
0C 1 byte	0226 2 bytes	4 bytes	4 bytes	1 byte	1 byte	2 bytes	1 byte	4 bytes	20 bytes	1 byte	1 byte	1 byte	1 byte	2 bytes

### GPS Fix Status & Report Type:

GPS Fix Status	Report Type
Bit5~Bit7  00=not fix, 01=2D fix, 10=3D fix	Bit0~Bit4  02=period report

## Parameters of Report Message

Parameters	Description
Battery Capacity	xx  unit: percent capacity

<b>Longitude</b>	xxx.xxxxxx unit: degree
<b>Latitude</b>	xx.xxxxxx unit: degree
<b>Date &amp;Time</b>	Epoch time from 1970/01/01 Refer to <a href="https://en.wikipedia.org/wiki/Unix_time">https://en.wikipedia.org/wiki/Unix_time</a>
<b>Beacon ID</b>	iBeacon: UUID + Major ID + Minor ID (20Bytes) Eddystone: Eddystone-UID (Namespace ID + Instance ID) 17~20byte left with zero ALTBeacon : Beacon ID (20Bytes)
<b>Beacon Type</b>	Bit5~Bit7 0: Beacon not available 1: iBeacon 2: Eddystone Beacon 3: ALTBeacon

**For example, the periodic report of 3D GPS-Fix**

0c260279967e08fdb09a02423005005a84097d5b0018d1005b2c0b

**Protocol version: 0C**

**Command ID: 2602 => 0x0226: Period report**

**Longitude: 79967e08=> 0x087e9679=>142513785x 0.000001 = 142.51378°**

**Latitude: fdb09a02 =>0x029ab0fd => 43692285 x 0.000001 = 43.6922855°**

**GPS-fix Status: 0x42 => 66 / 32 = 2 => 3D Fix**

Report Type: **0x42** => 66% 32= 2 => Periodic mode report

Reserve: **300050**

Battery Capacity: **0x5a** => 90 %

Time: **84097d5b**=>0x5b7d0984=1534921092=>8/22/2018 6:58:12 AM

Beacon ID: **000000000000000000000000000000000000**

Beacon Type: **0x18**=>24/32=0=> Beacon is not available

RSSI: **0xd1**=>-47

Tx Power: **0x00**=>0

Heart Rate: **0x5b**=>91

Temperature: **2c0b**=> 0x0b2c=> 2860/100=28.6°C

**Report format of Alarm report messages:**

Protocol Version	Command ID	Longitude	Latitude	GPS Fix Status & Alarm Type	Reserved	Reserved	Battery Capacity	Date & Time	Beacon ID	Beacon Type	RSSI	Tx Power	Heart Rate	Skin Temperature
<b>0C</b> 1 byte	<b>0025</b> 2 bytes	4 bytes	4 bytes	1 byte	1 byte	2 bytes	1 byte	4 bytes	20 bytes	1 byte	1 byte	1 byte	1 byte	2 bytes

**GPS Fix Status & Alarm Type:**

<b>GPS Fix Status</b>	<b>Alarm Type</b>
<b>Bit5~Bit7</b>	<b>Bit0~Bit4</b>
<b>00=not fix,</b>	<b>01=Help</b>
<b>01=2D fix,</b>	<b>02=Man Down</b>
<b>10=3D fix</b>	<b>08=Low heart rate</b>