

Bluetooth Data from OpenWind

1. Wind Data

Wind Service UUID	CC90		
Wind Data UUID	CC91	R/N	Write True to enable notification
Data	Type	Datatype	Value (Unit)
[1] LSB	Apparent Wind Angle	UInt16	AWA *= 0.1; (°)
[2] MSB			
[3] LSB	Apparent Wind Speed	UInt16	AWS *= 0.01; (Knot)
[4] MSB			

2. Movement Data

Movement Service UUID	AA80		
Movement Data UUID	AA85	R	Read Movement Data
Data	Type	Datatype	Value (Unit)
[0] MSB	Yaw	Int16	Yaw = Yaw * 1/16 -90; (°) if(Yaw < 0) Yaw += 360;
[1] LSB			
[2] MSB	Pitch	Int16	Pitch *= 1/16; (°)
[3] LSB			
[4] MSB	Roll	Int16	Roll *= 1/16; (°) if(Roll < 0) Roll *= -1; if(Roll >= 180) Roll = 360 - Roll ;
[5] LSB			
Movement Config UUID	AA82	W	Write 0x2C to enable Movement Sensor

3. Battery Data

Battery Service UUID	BB90		
Battery Data UUID	BB91	R	Read Battery Information
Data	Type	Datatype	Value (Unit)
[0] MSB	Battery Percentage	UInt16	Percentage (%)
[1] LSB			
[2] MSB	Current Consumption	Int16	Consumption (mA)
[3] LSB			
[4] MSB	Remain Capacity	UInt16	Remain Capacity (mAh)
[5] LSB			
[6] MSB	Battery Voltage	UInt16	Voltage (mV)
[7] LSB			
[8] MSB	Battery Temperatur	Int16	Temperatur (°C)
[9] LSB			
[10] MSB	Total Capacity	UInt16	Total Capacity (mAh)
[11] LSB			

4. Device Info

Device Info Service UUID	180A		
Device Info Serial Number UUID	2A25	R	Read Device Information
Data	Type	Datatype	Value
Byte[]	Serial Number	String	Serial Number

5. Broadcast Data

Manufacturer Specific Data	Advertising Data	0xFF	Value (Unit)
Company ID LSB	[0]	UInt16	ID: 15
Company ID MSB	[1]		
Apparent Wind Angle MSB	[2]	UInt16	Angle*1/10 (°)
Apparent Wind Angle LSB	[3]		
Apparent Wind Speed MSB	[4]	UInt16	Speed*1/100 (Knots)
Apparent Wind Speed LSB	[5]		
Movement Yaw MSB	[6]	Int16	Yaw*1/16 -90 (°) if(Yaw <0) Yaw += 360;
Movement Yaw LSB	[7]		
Movement Roll MSB	[8]	Int16	Roll*1/16 (°) if(Roll <0) Roll *= -1; if(Roll >= 180) Roll = 360 - Roll ;
Movement Roll LSB	[9]		
Movement Pitch MSB	[10]	Int16	Pitch*1/16 (°)
Movement Pitch LSB	[11]		
Battery Percentage MSB	[12]	UInt16	Percentage (%)
Battery Percentage LSB	[13]		
Battery Temperatur MSB	[14]	Int16	Temperature = (Temperatur * 0.1) -273 (°C)
Battery Temperatur LSB	[15]		
Battery Voltage MSB	[16]	UInt16	Voltage (mV)
Battery Voltage LSB	[17]		
Battery Remain Capacity MSB	[18]	UInt16	Remain Capacity (mAh)
Battery Remain Capacity LSB	[19]		
Battery Design Capacity MSB	[20]	UInt16	Total Capacity (mAh)
Battery Design Capacity LSB	[21]		
Battery Average Current MSB	[22]	Int16	Current Consumption (mA)
Battery Average Current LSB	[23]		