

“Hulan”

BLE GATT profiles

Project	
Category	Protocol documentation
Title	VT_HULPIL_20210625_BLE_GATT_PROFILES
Version	0.3
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Last saved	

Version	Date	Author	Description
0.1	25-06-2021	Jeroen Reeskamp	Document creation
0.2	20-10-2021	Jeroen Reeskamp	Added charging characteristic
0.3	11-11-2021	Jeroen Reeskamp	Added command service

Contents

GATT Services	2
BAS (battery)	2
DIS (device information)	2
Hulan Pressure Service	2
Charge Service	2
Command Service.....	4

GATT Services

BAS (battery)

Generic service for monitoring battery state.

<https://www.bluetooth.com/specifications/specs/battery-service-1-0/>

Service_UUID: **180f**

Battery level: **2a19**

1 Byte | Read & Notify

- uint8_t battery_level:
 - o 0-100

DIS (device information)

Generic service for providing device information.

<https://www.bluetooth.com/specifications/specs/device-information-service-1-1/>

Service_UUID: **180a**

Model number: **2a24**

String | Read

Manufacturer name: **2a29**

String | Read

Firmware version: **2a26**

String | Read

Hardware version: **2a27**

String | Read

Hulan Pressure Service

Service_UUID: **579ba43d-a351-463d-92c7-911ec1b54e35**

Pressure characteristic: **1470ca75-5d7e-4e16-a70d-d1476e8d0c6f**

1 byte | Read & Notify

- uint8_t pressure:
 - o 0-255

Charge Service

Service_UUID: **044402a3-f8b4-479a-b995-63e99acb2735**

READ, NOTIFY

Charge characteristic: **22feb891-0057-4a3e-af5b-ec769849077c**

1 byte | Read & Notify

- uint8_t charging:
 - o 0: Pre charge
 - o 1: Fast charge
 - o 2: Charge done
 - o 3: Sleep mode (not charging)

Command Service

Service_UUID: **6acccabd-1728-4697-9b4a-bf25ecca14aa**

Command characteristic: a9147e1f-e91f-4a02-b6e4-2869e0fe69bb

1 to 5 byte | Write

- uint8_t command_id:
 - 0x01: max pressure value
 - 0x0F: turn device off
- uint8_t[] command_data:
 - []: data