

Temperature and humidity sensor service: UUID 0XAA20

There are three characteristics:

0XAA21. Temp & humid data. There are 6 bytes.

1. Temperature positive/negative: 0 means positive (+) and 1 means negative (-)
2. Integer part of temperature. Show in Hexadecimal.
3. Decimal part of temperature. Show in Hexadecimal.
4. Reserved byte. Ignore it.
5. Integer part of humidity. Show in Hexadecimal.
6. Decimal part of humidity. Show in Hexadecimal.

For example: 00 14 05 22 32 08 means +20.5C 50.8%

01 08 09 00 14 05 means -8.9C 20.5%

0XAA22(Read,Write): start/stop checking temp and humid. 0x01(start), 0x00(stop).

0XAA23(Read,Write): checking frequency, unit(10ms), default is 100, that is checking every second.

The service UUID in broadcasting can be used as filter condition when searching.

Broadcasting data(0x00)		
Length	Type	Value
0x02	Flags(0x01)	General Discoverable, BrEdrNotSupported(0x04 0x02)
0x03	Incomplete list of 16-bit Service Class UUIDs(0x03)	0xAA20(Temperature and humidity sensor service UUID)
0x0E	Manufacturer specific data(0xFF)	Sensor data <There are 6 bytes, Temperature positive/negative (1B)+ Integer part of temperature (1B)+ Decimal part of temperature (1B)+ Reserved (1B)+ Integer part of humidity (1B)+ Decimal part of humidity (1B)>+battery percentage (1B)+MAC address(6B)
Scan response data(0x04)		
0x15	Complete local device name(0x09)	"Jinou_Sensor_HumiTemp "