M5600
Software Protocol Speficification

5600 Service

UUID	F000AB30-0451-4000-B000-000000000000

AVAILABLE CHARACTERISTICS

Name	UUID	Bytes	Read / Write	Notified
Data	F000AB31-0451-4000-B000-000000000000	14	Read	YES
Data Rate	F000AB31-0451-4000-B000-000000000000	12	Read / Write	YES
Status	F000AB3F-0451-4000-B000-000000000000	1	Read	NO

DATA CHARACTERISTIC BYTES FIELDS

0	1	2	3	4	5	6	7	8	9	10	11	12	13
T LSB	T MSB	P LSB	P	P	P MSB	Pmin LSB	Pmin	Pmin	Pmin MSB	Pmax LSB	Pmax	Pmax	Pmax MSB

T is a 16-bits signed integer, equals 0x7FFF if erroneous.
P, Pmin and Pmax are 32-bits signed integers, equal 0x7FFFFFFF if erroneous.

T is a temperature value with 0.01°C accuracy.
P, Pmin and Pmax are pressure values with 0.1Pa accuracy

CONVERSION

Temperature (°C) = T / 100

Pressure (Pa) = P / 10

Pressure (Psi) = P / 10 / 6894.7

DATA RATE CHARACTERISTIC BYTES FIELDS

0	1	2	3	4	5	6	7	8	9	10	11
Data rate LSB	Data rate	Data rate	Data rate MSB	Min LSB	Min	Min	Min MSB	Max LSB	Max	Max	Max MSB

Data rate, Min and Max are 32 bits unsigned integers.

Data rate is the actual sensor data rate in milliseconds.
Min is the minimum admissible data rate in milliseconds.
Max is maximum minimum admissible data rate in milliseconds.

NB. Only Data rate can be written.

STATUS

0x00	OK
0x01	Sensor error

NB. All signed integers use two's complement representation.

Battery Service

UUID	F000180F-0451-4000-B000-000000000000

AVAILABLE CHARACTERISTICS

Name	UUID	Bytes	Read / Write	Notified
Data	F0002A19-0451-4000-B000-000000000000	2	Read	YES

DATA CHARACTERISTIC BYTES FIELDS

Byte 0	Byte 1
Battery Level (%)	Status

0% to 100% represents a supply voltage from 2.0V to 3.0V with 1%/bit resolution.

STATUS

0x00	Discharging
0x01	Charging

Device Name Service

UUID	F000FA00-0451-4000-B000-000000000000

AVAILABLE CHARACTERISTICS

Name	UUID	Bytes	Read / Write	Notified
Device Name	F000FA01-0451-4000-B000-000000000000	18	Read/Write	NO
Default Device Name	F000FA02-0451-4000-B000-000000000000	18	Read	NO

Both Device Name and Default Device name are in ASCII format. Unused bytes should be nulled.

Default Device Name is "TESS 5600".