

## Sensor Tag Application: Complete Attribute Table

TI Base UUID: F0000000-0451-4000-B000-00000000xxxx. 128-bit UUIDs are typed 'bold'

handle (hex)	handle (dec)	Type (hex)	Type (#DEFINE)	Hex / Text Value (default)	GATT Server Permissions	Notes
0x1	1	0x2800	GATT_PRIMARY_SERVICE_UUID	0x1800 (GAP_SERVICE_UUID)	GATT_PERMIT_READ	Start of GAP Service (Mandatory)
0x2	2	0x2803	GATT_CHARACTER_UUID	02 (properties: read only) 03 00 (handle: 0x0003) 00 2A (UUID: 0x2A00)	GATT_PERMIT_READ	Device Name characteristic declaration
0x3	3	0x2A00	GAP_DEVICE_NAME_UUID	"Sensor Tag"	GATT_PERMIT_READ	Device Name characteristic value
0x4	4	0x2803	GATT_CHARACTER_UUID	02 (properties: read only) 05 00 (handle: 0x0005) 01 2A (UUID: 0x2A01)	GATT_PERMIT_READ	Appearance characteristic declaration
0x5	5	0x2A01	GAP_APPEARANCE_UUID	0x0000	GATT_PERMIT_READ	Appearance characteristic value
0x6	6	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 07 00 (handle: 0x0007) 02 2A (UUID: 0x2A02)	GATT_PERMIT_READ	Peripheral Privacy Flag characteristic declaration
0x7	7	0x2A02	GAP_PERI_PRIVACY_FLAG_UUID	0x00 (GAP_PRIVACY_DISABLED)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Peripheral Privacy Flag characteristic value
0x8	8	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 09 00 (handle: 0x0009) 03 2A (UUID: 0x2A03)	GATT_PERMIT_READ	Reconnection address characteristic declaration
0x9	9	0x2A03	GAP_RECONNECT_ADDR_UUID	00:00:00:00:00:00	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Reconnection address characteristic value
0xA	10	0x2803	GATT_CHARACTER_UUID	02 (properties: read only) 0B 00 (handle: 0x000B) 04 2A (UUID: 0x2A04)	GATT_PERMIT_READ	Peripheral Preferred Connection Parameters characteristic declaration
0xB	11	0x2A04	GAP_PERI_CONN_PARAM_UUID	50 00 (100ms preferred min connection interval) A0 00 (200ms preferred max connection interval) 00 00 (0 preferred slave latency) E8 03 (10000ms preferred supervision timeout)	GATT_PERMIT_READ	Peripheral Preferred Connection Parameters characteristic declaration
0xC	12	0x2800	GATT_PRIMARY_SERVICE_UUID	0x1801 (GATT_SERVICE_UUID)	GATT_PERMIT_READ	Start of GATT Service (mandatory)
0xD	13	0x2803	GATT_CHARACTER_UUID	20 (properties: indicate only) 0E 00 (handle: 0x000E) 05 2A (UUID: 0x2A05)	GATT_PERMIT_READ	Service Changed characteristic declaration
0xE	14	0x2A05	GATT_SERVICE_CHANGED_UUID	(null value)	(none)	Service Changed characteristic value
0xF	15	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01:00" to enable notifications, "00:00" to disable
0x10	16	0x2800	GATT_PRIMARY_SERVICE_UUID	0x180A (DEVINFO_SERV_UUID)	GATT_PERMIT_READ	Start of Device Information Service
0x11	17	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 11 00 (handle 0x0011) 23 2A (UUID 0x2A23)	GATT_PERMIT_READ	System ID characteristic declaration
0x12	18	0x2A23	DEVINFO_SYSTEM_ID_UUID	xx xx xx 00 00 xx xx xx (xx's are IEEE address)	GATT_PERMIT_READ	System ID
0x13	19	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 13 00 (handle 0x0013) 24 2A (UUID 0x2A24)	GATT_PERMIT_READ	Model Number String characteristic declaration
0x14	20	0x2A24	DEVINFO_MODEL_NUMBER_UUID	"Model Number"	GATT_PERMIT_READ	Model Number String
0x15	21	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 15 00 (handle 0x0015) 25 2A (UUID 0x2A25)	GATT_PERMIT_READ	Serial Number String characteristic declaration
0x16	22	0x2A25	DEVINFO_SERIAL_NUMBER_UUID	"Serial Number"	GATT_PERMIT_READ	Serial Number String
0x17	23	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 17 00 (handle 0x0017) 26 2A (UUID 0x2A26)	GATT_PERMIT_READ	Firmware Revision String characteristic declaration
0x18	24	0x2A26	DEVINFO_FIRMWARE_REV_UUID	"Firmware Revision"	GATT_PERMIT_READ	Firmware Revision String
0x19	25	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 19 00 (handle 0x0019) 27 2A (UUID 0x2A27)	GATT_PERMIT_READ	Hardware Revision String characteristic declaration
0x1A	26	0x2A27	DEVINFO_HARDWARE_REV_UUID	"Hardware Revision"	GATT_PERMIT_READ	Hardware Revision String
0x1B	27	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 1B 00 (handle 0x001B) 28 2A (UUID 0x2A28)	GATT_PERMIT_READ	Software Revision String characteristic declaration
0x1C	28	0x2A28	DEVINFO_SOFTWARE_REV_UUID	"Software Revision"	GATT_PERMIT_READ	Software Revision String
0x1D	29	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 1D 00 (handle 0x001D) 29 2A (UUID 0x2A29)	GATT_PERMIT_READ	Manufacturer Name String characteristic declaration
0x1E	30	0x2A29	DEVINFO_MANUFACTURER_NAME_UUID	"Manufacturer Name"	GATT_PERMIT_READ	Manufacturer Name String
0x1F	31	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 1F 00 (handle 0x001F) 2A 2A (UUID 0x2A2A)	GATT_PERMIT_READ	IEEE 11073-20601 Regulatory Certification Data List characteristic declaration
0x20	32	0x2A2A	DEVINFO_11073_CERT_DATA_UUID	FE 00 65 78 70 65 72 69 6D 65 6E 74 61 6C	GATT_PERMIT_READ	IEEE 11073-20601 Regulatory Certification Data List
0x21	33	0x2803	GATT_CHARACTER_UUID	02 (read permissions) 22 00 (handle 0x0022) 50 2A (UUID 0x2A50)	GATT_PERMIT_READ	PnP ID characteristic declaration
0x22	34	0x2A2A	PNPID_DATA_UUID	FE 00 65 78 70 65 72 69 6D 65 6E 74 61 6C	GATT_PERMIT_READ	PnP ID
0x23	35	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA00 (IRTEMPERATURE_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Temperature Service
0x24	36	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 25 00 (handle: 0x0025) 01 AA (UUID: 0xAA01)	GATT_PERMIT_READ	
0x25	37	0xAA01	IRTEMPERATURE_DATA_UUID	00:00:00:00 (4 bytes)	GATT_PERMIT_READ	ObjectLSB:ObjectMSB:AmbientLSB:AmbientMSB
0x26	38	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01:00" to enable notifications, "00:00" to disable
0x27	39	0x2901	GATT_CHAR_USER_DESC_UUID	"IR Temp. Data" (14 bytes)	GATT_PERMIT_READ	
0x28	40	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 29 00 (handle: 0x0029) 02 AA (UUID: 0xAA02)	GATT_PERMIT_READ	
0x29	41	0xAA02	IRTEMPERATURE_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x2A	42	0x2901	GATT_CHAR_USER_DESC_UUID	"IR Temp. Conf." (15 bytes)	GATT_PERMIT_READ	
0x2B	43	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA10 (ACCELEROMETER_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Accelerometer Service
0x2C	44	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 2D 00 (handle: 0x002D) 11 AA (UUID: 0xAA11)	GATT_PERMIT_READ	
0x2D	45	0xAA11	ACCELEROMETER_DATA_UUID	00:00:00 (3 bytes)	GATT_PERMIT_READ	X : Y : Z Coordinates
0x2E	46	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01:00" to enable notifications, "00:00" to disable
0x2F	47	0x2901	GATT_CHAR_USER_DESC_UUID	"Accel. Data" (14 bytes)	GATT_PERMIT_READ	
0x30	48	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 31 00 (handle: 0x0031) 12 AA (UUID: 0xAA12)	GATT_PERMIT_READ	

0x31	49	0xAA12	ACCELEROMETER_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x32	50	0x2901	GATT_CHAR_USER_DESC_UUID	"Accel. Conf." (15 bytes)	GATT_PERMIT_READ	
0x33	51	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 34 00 (handle: 0x0034) 13 AA (UUID: 0xAA13)	GATT_PERMIT_READ	
0x34	52	0xAA13	ACCELEROMETER_PERI_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Period = [Input*10] ms, default 1000 ms, lower limit 100 ms
0x35	53	0x2901	GATT_CHAR_USER_DESC_UUID	"Acc. Period" (12 bytes)	GATT_PERMIT_READ	
0x36	54	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA20 (HUMIDITY_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Humidity Service
0x37	55	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 38 00 (handle: 0x0038) 21 AA (UUID: 0xAA21)	GATT_PERMIT_READ	
0x38	56	0xAA21	HUMIDITY_DATA_UUID	00:00:00:00 (4 bytes)	GATT_PERMIT_READ	TempLSB:TempMSB:HumidityLSB:HumidityMSB
0x39	57	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01:00" to enable notifications
0x3A	58	0x2901	GATT_CHAR_USER_DESC_UUID	"Humid_Data" (14 bytes)	GATT_PERMIT_READ	
0x3B	59	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 3C 00 (handle: 0x003C) 22 AA (UUID: 0xAA22)	GATT_PERMIT_READ	
0x3C	60	0xAA22	HUMIDITY_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x3D	61	0x2901	GATT_CHAR_USER_DESC_UUID	"Humid. Conf." (15 bytes)	GATT_PERMIT_READ	
0x3E	62	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA30 (MAGNETOMETER_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Magnetometer Service
0x3F	63	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 40 00 (handle: 0x0040) 31 AA (UUID: 0xAA31)	GATT_PERMIT_READ	
0x40	64	0xAA31	MAGNETOMETER_DATA_UUID	00:00:00:00:00:00 (6 bytes)	GATT_PERMIT_READ	XMSB:XLBS:YMSB:YLSB: ZMSB:ZLSB Coordinates
0x41	65	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01:00" to enable notifications, "00:00" to disable
0x42	66	0x2901	GATT_CHAR_USER_DESC_UUID	"Mag_Data" (10 bytes)	GATT_PERMIT_READ	
0x43	67	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 44 00 (handle: 0x0044) 32 AA (UUID: 0xAA32)	GATT_PERMIT_READ	
0x44	68	0xAA32	MAGNETOMETER_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x45	69	0x2901	GATT_CHAR_USER_DESC_UUID	"Mag. Conf." (11 bytes)	GATT_PERMIT_READ	
0x46	70	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 47 00 (handle: 0x0047) 33 AA (UUID: 0xAA33)	GATT_PERMIT_READ	
0x47	71	0xAA33	MAGNETOMETER_PERI_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Period = [Input*10]ms, default 2000ms, lower limit 100 ms
0x48	72	0x2901	GATT_CHAR_USER_DESC_UUID	"Mag_Period" (12 bytes)	GATT_PERMIT_READ	
0x49	73	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA40 (BAROMETER_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Barometer Service
0x4A	74	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 48 00 (handle: 0x0048) 41 AA (UUID: 0xAA41)	GATT_PERMIT_READ	
0x4B	75	0xAA41	BAROMETER_DATA_UUID	00:00:00:00 (4 bytes)	GATT_PERMIT_READ	TempLSB:TempMSB:PressureLSB:PressureMSB
0x4C	76	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	
0x4D	77	0x2901	GATT_CHAR_USER_DESC_UUID	"Barometer Data" (15 bytes)	GATT_PERMIT_READ	
0x4E	78	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 53 00 (handle: 0x0053) 42 AA (UUID: 0xAA42)	GATT_PERMIT_READ	
0x4F	79	0xAA42	BAROMETER_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write "01" to start Sensor and Measurements, "00" to put to sleep, "02" to read calibration values from sensor
0x50	80	0x2901	GATT_CHAR_USER_DESC_UUID	"Barometer Conf." (16 bytes)	GATT_PERMIT_READ	
0x51	81	0x2803	GATT_CHARACTER_UUID	02 (properties: read only) 4F 00 (handle: 0x004F) 43 AA (UUID: 0xAA43)	GATT_PERMIT_READ	
0x52	82	0xAA43	BAROMETER_CALI_UUID	00:00:....00:00 (16 bytes)	GATT_PERMIT_READ	When write 02 to Barometer Conf. has been issued, the calibration values is found here
0x53	83	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	
0x54	84	0x2901	GATT_CHAR_USER_DESC_UUID	"Barometer Cali." (16 bytes)	GATT_PERMIT_READ	
0x55	85	0x2800	GATT_PRIMARY_SERVICE_UUID	0xAA50 (GYROSCOPE_SERV_UUID)	GATT_PERMIT_READ	Start of Sensor Profile Gyroscope Service
0x56	86	0x2803	GATT_CHARACTER_UUID	12 (properties: read/notify) 57 00 (handle: 0x0057) 51 AA (UUID: 0xAA51)	GATT_PERMIT_READ	
0x57	87	0xAA51	GYROSCOPE_DATA_UUID	00:00:00:00:00:00 (6 bytes)	GATT_PERMIT_READ	XMSB:XLBS:YMSB:YLSB: ZMSB:ZLSB
0x58	88	0x2902	GATT_CLIENT_CHAR_CFG_UUID	00:00 (2 bytes)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	
0x59	89	0x2901	GATT_CHAR_USER_DESC_UUID	"Gyro_Data" (11 bytes)	GATT_PERMIT_READ	
0x5A	90	0x2803	GATT_CHARACTER_UUID	0A (properties: read/write) 5B 00 (handle: 0x005B) 52 AA (UUID: 0xAA52)	GATT_PERMIT_READ	
0x5B	91	0xAA52	GYROSCOPE_CONF_UUID	1 (1 byte)	GATT_PERMIT_READ   GATT_PERMIT_WRITE	Write 0 to turn off gyroscope, 1 to enable X axis only, 2 to enable Y axis only, 3 = X and Y, 4 = Z only, 5 = X and Z, 6 = Y and Z, 7 = X, Y and Z
0x5C	92	0x2901	GATT_CHAR_USER_DESC_UUID	"Gyro. Conf." (13 bytes)	GATT_PERMIT_READ	
0x5D	93	0x2800	GATT_SERVICE_UUID	0xFFE0 (SK_KEYPRESSED_UUID)	GATT_PERMIT_READ	Start of Simple Keys Service
0x5E	94	0x2803	GATT_CHARACTER_UUID	10 (notify permission) 34 00 (handle 0x0034) E1 FF (UUID 0xFFE1)	GATT_PERMIT_READ	Keys state characteristic declaration
0x5F	95	0xFFE1	SK_KEYPRESSED_UUID	0	(none)	Keys state characteristic value (bit mask of left / right key presses). Side key as bit 2 in test mode only.
0x60	96	0x2902	GATT_CLIENT_CHAR_CFG_UUID	0x0000	GATT_PERMIT_READ   GATT_PERMIT_WRITE	
0x61	97	0x2901	GATT_CHAR_USER_DESC_UUID	"Key Press State"	GATT_PERMIT_READ	Keys state characteristic user description
0x62	98	0x2800	GATT_SERVICE_UUID	0xAA60 (TEST_SERVICE_UUID)	GATT_PERMIT_READ	Start of Test Service
0x63	99	0x2803	GATT_CHARACTER_UUID	02 (read permission) 64 00 (handle 0x0064) 61 AA (UUID: 0xAA61)	GATT_PERMIT_READ	Test Data characteristic declaration
0x64	100	0xAA61	TEST_DATA_UUID	1 byte	GATT_PERMIT_READ	Test Data: 1 bit set of each test passed
0x65	101	0x2901	GATT_CHAR_USER_DESC_UUID	"Test Data" (10 bytes)	GATT_PERMIT_READ	
0x66	102	0x2803	GATT_CHARACTER_UUID	0A (read/write permission) 68 00 (handle 0x0068) 62 AA (UUID: 0xAA62)	GATT_PERMIT_READ	Test Config characteristic declaration
0x67	103	0xAA62	TEST_CONFIG_UUID	1 byte	GATT_PERMIT_READ	Test Config: bit 7 - enable test mode, bit 1 - set LED2, bit 0 - set LED 1
0x68	104	0x2901	GATT_CHAR_USER_DESC_UUID	"Test Config" (12 bytes)	GATT_PERMIT_READ	