SensorTag attribute table

TI Base UUID: F000**XXXX**-0451-4000-B000-000000000000. 128-but UUIDs are typed **'bold blue'**

Handle (hex)	Handle (dec)	Type (hex)	Type (text)	Hex value	GATT Server Permissions	Description/Value (text)
0x1	1	0x2800	GATT Primary Service Declaration	0x1800	R	Generic Access Service
0x2	2	0x2803	GATT Characteristic Declaration	02:03:00:00:2A	R	Device Name
0x3	3	0x2A00	Device Name	54:49:20:42:4C:45:20:53:65:6E:73:6F:72:20:54:61:67	R	TI BLE Sensor Tag
0x4	4	0x2803	GATT Characteristic Declaration	02:05:00:01:2A	R	Appearance
0x5	5	0x2A01	Appearance	00:00	R	
0x6	6	0x2803	GATT Characteristic Declaration	0A:07:00:02:2A	R	Peripheral Privacy Flag
0x7	7	0x2A02	Peripheral Privacy Flag	00	RW	
0x8	8	0x2803	GATT Characteristic Declaration	08:09:00:03:2A	R	Reconnection Address
0x9	9	0x2A03	Reconnection Address		W	
0xA	10	0x2803	GATT Characteristic Declaration	02:0B:00:04:2A	R	Peripheral Preferred Connection Parameters
0xB	11	0x2A04	Peripheral Preferred Connection Parameters	50:00:A0:00:00:00:E8:03	R	P
0xC	12	0x2800	GATT Primary Service Declaration	0x1801	R	Generic Attribute Service
0xD	13	0x2803	GATT Characteristic Declaration	20:0E:00:05:2A	R	Service Changed
0xE	14	0x2A05	Service Changed		I	
0xF	15	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable

0x10	16	0x2800	GATT Primary Service Declaration	0x180A	R	Device Information Service
0x11	17	0x2803	GATT Characteristic Declaration	02:12:00:23:2A	R	System ID
0x12	18	0x2A23	System ID	60:E2:B1:00:00:EB:D7:90	R	`
0x13	19	0x2803	GATT Characteristic Declaration	02:14:00:24:2A	R	Model Number String
0x14	20	0x2A24	Model Number String	4E:2E:41:2E:00	R	N.A.
0x15	21	0x2803	GATT Characteristic Declaration	02:16:00:25:2A	R	Serial Number String
0x16	22	0x2A25	Serial Number String	4E:2E:41:2E:00	R	N.A.
0x17	23	0x2803	GATT Characteristic Declaration	02:18:00:26:2A	R	Firmware Revision String
0x18	24	0x2A26	Firmware Revision String	31:2E:35:20:28:4F:63:74:20:32:33:20:32:30:31:33:29:00	R	1.5 (Oct 23 2013)
0x19	25	0x2803	GATT Characteristic Declaration	02:1A:00:27:2A	R	Hardware Revision String
0x1A	26	0x2A27	Hardware Revision String	4E:2E:41:2E:00	R	N.A.
0x1B	27	0x2803	GATT Characteristic Declaration	02:1C:00:28:2A	R	Software Revision String
0x1C	28	0x2A28	Software Revision String	4E:2E:41:2E:00	R	N.A.
0x1D	29	0x2803	GATT Characteristic Declaration	02:1E:00:29:2A	R	Manufacturer Name String
0x1E	30	0x2A29	Manufacturer Name String	54:65:78:61:73:20:49:6E:73:74:72:75:6D:65:6E:74:73:00	R	Texas Instruments
0x1F	31	0x2803	GATT Characteristic Declaration	02:20:00:2A:2A	R	IEEE 11073-20601 Regulatory Certification Data List
0x20	32	0x2A2A	IEEE 11073-20601 Regulatory	FE:00:65:78:70:65:72:69:6D:65:6E:74:61:6C	R	experimental

			Certification Data List			
0x21	33	0x2803	GATT Characteristic Declaration	02:22:00:50:2A	R	PnP ID
0x22	34	0x2A50	PnP ID	01:0D:00:00:00:10:01	R	
0x23	35	0x2800	GATT Primary Service Declaration	F000AA00-0451-4000-B000-000000000000	R	IR Temperature Service
0x24	36	0x2803	GATT Characteristic Declaration	12:25:00:00:00:00:00:00:00:00:B0:00:40:51:04:01:AA:00:F0	R	IR Temperature Data
0x25	37	**0xAA01**	IR Temperature Data	00:00:00:00	RN	ObjectLSB:ObjectMSB:AmbientLSB:AmbientMSB
0x26	38	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x27	39	0x2901	Characteristic User Description	54:65:6D:70:2E:20:44:61:74:61	R	Temp. Data
0x28	40	0x2803	GATT Characteristic Declaration	0A:29:00:00:00:00:00:00:00:00:B0:00:40:51:04:02:AA:00:F0	R	IR Temperature Config
0x29	41	**0xAA02**	IR Temperature Config	00	RW	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x2A	42	0x2901	Characteristic User Description	54:65:6D:70:2E:20:43:6F:6E:66:2E	R	Temp. Conf.
0x2B	43	0x2803	GATT Characteristic Declaration	0A:2C:00:00:00:00:00:00:00:00:B0:00:40:51:04:03:AA:00:F0	R	IR Temperature Period
0x2C	44	**0xAA03**	IR Temperature Period	64	RW	Period = [Input*10] ms, (lower limit 300 ms), default 1000 ms
0x2D	45	0x2901	Characteristic User Description	54:65:6D:70:2E:20:50:65:72:69:6F:64	R	Temp. Period
0x2E	46	0x2800	GATT Primary Service Declaration	F000AA10-0451-4000-B000-000000000000	R	Accelerometer Service
0x2F	47	0x2803	GATT Characteristic Declaration	12:30:00:00:00:00:00:00:00:00:B0:00:40:51:04:11:AA:00:F0	R	Accelerometer Data
0x30	48	**0xAA11**	Accelerometer Data	00:00:00	RN	X : Y : Z Coordinates
0x31	49	0x2902	Client Characteristic	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable

			Configuration			
0x32	50	0x2901	Characteristic User Description	41:63:63:65:6C:2E:20:44:61:74:61	R	Accel. Data
0x33	51	0x2803	GATT Characteristic Declaration	0A:34:00:00:00:00:00:00:00:00:B0:00:40:51:04:12:AA:00:F0	R	Accelerometer Config
0x34	52	**0xAA12**	Accelerometer Config	00	RW	Write "01" to select range 2G, "02" for 4G, "03" for 8G, "00" disable sensor
0x35	53	0x2901	Characteristic User Description	41:63:63:65:6C:2E:20:43:6F:6E:66:2E	R	Accel. Conf.
0x36	54	0x2803	GATT Characteristic Declaration	0A:37:00:00:00:00:00:00:00:00:B0:00:40:51:04:13:AA:00:F0	R	Accelerometer Period
0x37	55	**0xAA13**	Accelerometer Period	64	RW	Period = [Input*10] ms, (lower limit 100ms), default 1000 ms
0x38	56	0x2901	Characteristic User Description	41:63:63:65:6C:2E:20:50:65:72:69:6F:64	R	Accel. Period
0x39	57	0x2800	GATT Primary Service Declaration	F000AA20-0451-4000-B000-000000000000	R	Humidity Service
0x3A	58	0x2803	GATT Characteristic Declaration	12:3B:00:00:00:00:00:00:00:00:B0:00:40:51:04:21:AA:00:F0	R	Humidity Data
0x3B	59	**0xAA21**	Humidity Data	00:00:00:00	RN	TempLSB:TempMSB:HumidityLSB:HumidityMSB
0x3C	60	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x3D	61	0x2901	Characteristic User Description	48:75:6D:69:64:2E:20:44:61:74:61	R	Humid. Data
0x3E	62	0x2803	GATT Characteristic Declaration	0A:3F:00:00:00:00:00:00:00:00:B0:00:40:51:04:22:AA:00:F0	R	Humidity Config
0x3F	63	**0xAA22**	Humidity Config	00	RW	Write "01" to start measurements, "00" to stop
0x40	64	0x2901	Characteristic User Description	48:75:6D:69:64:2E:20:43:6F:6E:66:2E	R	Humid. Conf.
0x41	65	0x2803	GATT Characteristic Declaration	0A:42:00:00:00:00:00:00:00:00:B0:00:40:51:04:23:AA:00:F0	R	Humidity Period
0x42	66	**0xAA23**	Humidity Period	64	RW	Period = [Input*10] ms, (lower limit 100 ms), default 1000 ms

0x43	67	0x2901	Characteristic User Description	48:75:6D:69:64:2E:20:50:65:72:69:6F:64	R	Humid. Period
0x44	68	0x2800	GATT Primary Service Declaration	F000AA30-0451-4000-B000-000000000000	R	Magnetometer Service
0x45	69	0x2803	GATT Characteristic Declaration	12:46:00:00:00:00:00:00:00:00:B0:00:40:51:04:31:AA:00:F0	R	Magnetometer Data
0x46	70	**0xAA31**	Magnetometer Data	00:00:00:00:00:00	RN	XLSB:XMSB:YLSB:YMSB: ZLSB:ZMSB Coordinates
0x47	71	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x48	72	0x2901	Characteristic User Description	4D:61:67:6E:2E:20:44:61:74:61	R	Magn. Data
0x49	73	0x2803	GATT Characteristic Declaration	0A:4A:00:00:00:00:00:00:00:00:B0:00:40:51:04:32:AA:00:F0	R	Magnetometer Config
0x4A	74	**0xAA32**	Magnetometer Config	00	RW	Write "01" to start Sensor and Measurements, "00" to put to sleep
0x4B	75	0x2901	Characteristic User Description	4D:61:67:6E:2E:20:43:6F:6E:66:2E	R	Magn. Conf.
0x4C	76	0x2803	GATT Characteristic Declaration	0A:4D:00:00:00:00:00:00:00:00:B0:00:40:51:04:33:AA:00:F0	R	Magnetometer Period
0x4D	77	**0xAA33**	Magnetometer Period	C8	RW	Period = [Input*10]ms (lower limit 100ms), default 2000ms
0x4E	78	0x2901	Characteristic User Description	4D:61:67:6E:2E:20:50:65:72:69:6F:64	R	Magn. Period
0x4F	79	0x2800	GATT Primary Service Declaration	F000AA40-0451-4000-B000-000000000000	R	Barometer Service
0x50	80	0x2803	GATT Characteristic Declaration	12:51:00:00:00:00:00:00:00:00:B0:00:40:51:04:41:AA:00:F0	R	Barometer Data
0x51	81	**0xAA41**	Barometer Data	00:00:00:00	RN	TempLSB:TempMSB:PressureLSB:PressureMSB
0x52	82	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x53	83	0x2901	Characteristic User	42:61:72:6F:6D:2E:20:44:61:74:61	R	Barom. Data

			Description			
0x54	84	0x2803	GATT Characteristic Declaration	0A:55:00:00:00:00:00:00:00:00:B0:00:40:51:04:42:AA:00:F0	R	Barometer Configuration
0x55	85	**0xAA42**	Barometer Configuration	00	RW	Write "01" to start Sensor and Measurements, "00" to put to sleep, "02" to read calibration values from sensor
0x56	86	0x2901	Characteristic User Description	42:61:72:6F:6D:2E:20:43:6F:6E:66:2E	R	Barom. Conf.
0x57	87	0x2803	GATT Characteristic Declaration	0A:58:00:00:00:00:00:00:00:00:B0:00:40:51:04:44:AA:00:F0	R	Barometer Period
0x58	88	**0xAA44**	Barometer Period	64	RW	Period = [Input*10] ms, (lower limit 100 ms), default 1000 ms
0x59	89	0x2901	Characteristic User Description	42:61:72:6F:6D:2E:20:50:65:72:69:6F:64	R	Barom. Period
0x5A	90	0x2803	GATT Characteristic Declaration	02:5B:00:00:00:00:00:00:00:00:B0:00:40:51:04:43:AA:00:F0	R	Barometer Calibration
0x5B	91	**0xAA43**	Barometer Calibration	00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00	R	When write "02" to Barometer conf. has been issued, the calibration values is found here.
0x5C	92	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x5D	93	0x2901	Characteristic User Description	42:61:72:6F:6D:2E:20:43:61:6C:69:62:72:2E	R	Barom. Calibr.
0x5E	94	0x2800	GATT Primary Service Declaration	F000AA50-0451-4000-B000-000000000000	R	Gyroscope Service
0x5F	95	0x2803	GATT Characteristic Declaration	12:60:00:00:00:00:00:00:00:00:B0:00:40:51:04:51:AA:00:F0	R	Gyroscope Data
0x60	96	**0xAA51**	Gyroscope Data	00:00:00:00:00:00	RN	XLSB:XMSB:YLSB:YMSB: ZLSB:ZMSB
0x61	97	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x62	98	0x2901	Characteristic User Description	47:79:72:6F:20:44:61:74:61	R	Gyro Data
0x63	99	0x2803	GATT Characteristic Declaration	0A:64:00:00:00:00:00:00:00:00:B0:00:40:51:04:52:AA:00:F0	R	Gyroscope Config
0x64	100	**0xAA52**	Gyroscope Config	00	RW	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
0x65	101	0x2901	Characteristic User Description	47:79:72:6F:20:43:6F:6E:66:2E		R	Gyro Conf.
0x66	102	0x2803	GATT Characteristic Declaration	0A:67:00:00:00:00:00:00:00:00:B0:00:40:51:04:53:AA:00:F0	R	Gyroscope Period
0x67	103	**0xAA53**	Gyroscope Period	64		RW	Period = [Input*10]ms (lower limit 100ms), default 1000ms
0x68	104	0x2901	Characteristic User Description	47:79:72:6F:20:50:65:72:69:6F:64		R	Gyro Period
0x69	105	0x2800	GATT Primary Service Declaration	0xFFE0		R	Simple Keys Service
0x6A	106	0x2803	GATT Characteristic Declaration	10:6B:00:E1:FF		R	Key press state
0x6B	107	0xFFE1	Key press state			N	
0x6C	108	0x2902	Client Characteristic Configuration	00:00		RW	Write "01:00" to enable notifications, "00:00" to disable
0x6D	109	0x2901	Characteristic User Description	4B:65:79:20:50:72:65:73:73:20:53:74:61:74:65		R	Key Press State
0x6E	110	0x2800	GATT Primary Service Declaration	F000AA60-0451-4000-B000-000000000000		R	Test Service
0x6F	111	0x2803	GATT Characteristic Declaration	02:70:00:00:00:00:00:00:00:00:B0:00:40:51:04:61:AA:00:F0	R	Test Data
0x70	112	**0xAA61**	Test Data	3F:00		R	Self-test results (high bit indicates PASSED): Bit 0:IR temp, 1:Humidity, 2:Magnetometer, 3:accelerometer, 4:Barometer, 5:Gyroscope
0x71	113	0x2901	Characteristic User Description	54:65:73:74:20:44:61:74:61		R	Test Data
0x72	114	0x2803	GATT Characteristic Declaration	0A:73:00:00:00:00:00:00:00:00:B0:00:40:51:04:62:AA:00:F0	R	Test Config
0x73	115	**0xAA62**	Test Config	00		RW	bit 7: enable test mode; bit 0-1 LED bit mask
0x74	116	0x2901	Characteristic User Description	54:65:73:74:20:43:6F:6E:66:69:67		R	Test Config

0x75	117	0x2800	GATT Primary Service Declaration	F000CCC0-0451-4000-B000-000000000000	R	Connection Control Service
0x76	118	0x2803	GATT Characteristic Declaration	12:77:00:00:00:00:00:00:00:00:B0:00:40:51:04:C1:CC:00:F0	R	Connection Parameters
0x77	119	**0xCCC1**	Connection Parameters	10:00:00:00:32:00	RN	ConnInterval,SlaveLatency,SupervisionTimeout (2 bytes each)
0x78	120	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x79	121	0x2901	Characteristic User Description	43:6F:6E:6E:2E:20:50:61:72:61:6D:73	R	Conn. Params
0x7A	122	0x2803	GATT Characteristic Declaration	08:7B:00:00:00:00:00:00:00:00:B0:00:40:51:04:C2:CC:00:F0	R	Request Connection Parameters
0x7B	123	**0xCCC2**	Request Connection Parameters		W	MinConnInterval,MaxConnInterval,SlaveLatency,SupervisionTimeout (2 bytes each)
0x7C	124	0x2901	Characteristic User Description	43:6F:6E:6E:2E:20:50:61:72:61:6D:73:20:52:65:71	R	Conn. Params Req
0x7D	125	0x2803	GATT Characteristic Declaration	08:7E:00:00:00:00:00:00:00:00:B0:00:40:51:04:C3:CC:00:F0	R	Disconnect request
0x7E	126	**0xCCC3**	Disconnect request		W	Change the value to disconnect
0x7F	127	0x2901	Characteristic User Description	44:69:73:63:6F:6E:6E:65:63:74:20:52:65:71	R	Disconnect Req
0x80	128	0x2800	GATT Primary Service Declaration	F000FFC0-0451-4000-B000-000000000000	R	OAD Service
0x81	129	0x2803	GATT Characteristic Declaration	1C:82:00:00:00:00:00:00:00:00:B0:00:40:51:04:C1:FF:00:F0	R	OAD Image Identify
0x82	130	**0xFFC1**	OAD Image Identify		WN	Write '0' to identify image type 'A', '1' to identify 'B'. Data in notfication 8 bytes: image type (2), size/4 (2), user data (4).
0x83	131	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x84	132	0x2901	Characteristic User Description	49:6D:67:20:49:64:65:6E:74:69:66:79	R	Img Identify

0x85	133	0x2803	GATT Characteristic Declaration	1C:86:00:00:00:00:00:00:00:00:B0:00:40:51:04:C2:FF:00:F0	R	OAD Image Block
0x86	134	**0xFFC2**	OAD Image Block		WN	Image block (18 bytes). Block no. (2 bytes), OAD image block (16 bytes)
0x87	135	0x2902	Client Characteristic Configuration	00:00	RW	Write "01:00" to enable notifications, "00:00" to disable
0x88	136	0x2901	Characteristic User Description	49:6D:67:20:42:6C:6F:63:6B	R	Img Block