

How to read data from Blue Puck/Coin sensors

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Compatible with: | TFT100 | TST100 | TMT250 | GH5200 | TAT100

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Configuring Blue Puck/Coin sensor

Bluetooth LE Blue Puck and Blue Coin sensors are disabled by default. Configurations to these sensors are written through NFC. To do this download **Device Manager Mobile** (https://play.google.com/store/apps/details?id=com.ela.mobileapp.elamobileapp&hl=en_US%7C) by Ela from *Google Play Store* to your Android-powered device.

Note! Android-powered device that is used for configuring Blue Puck/Coin sensors must support NFC read/write functionality.

Follow these instructions to easily configure Blue Puck/Coin Bluetooth LE sensor:

- Enable Bluetooth and NFC on your Android-powered device.
- Launch **Device Manager Mobile** on your Android-powered device.
- Select *Configuration*.

- Place your Android-powered device on top of Blue Puck/Coin sensor to scan it.
- Click *Enable* to allow Blue Puck/Coin sensor transmit advertising data. If it shows a tick, it is already connected to your phone.
- We recommend to set *Power* to 4 to get the best possible distance.
- Set *BLE Emit Period* to 1 seconds to get best possible sensor detection.
- Click *Write* button.
- Place your Android-powered device on top of Blue Puck/Coin sensor to write configuration to it.

Once the configuration is written successfully, the Blue Puck/Coin sensor will be enabled and use the settings configured in the APP.

NOTE! Make sure that *Manufacturer data mode* is Disabled, otherwise BLE sensor will not be detected without additional changes in the device configuration.



The screenshot shows the 'Tools' section with 'Write' and 'Raw' buttons. Below is the 'Configuration' section with a 'Bluetooth' header. The settings listed are: 'Advertising Name' (C T 800751), 'TAG Enable State' (a green toggle switch), 'TAG Power' (4), 'TAG Format' (T), and 'BLE Emit Period' (1). Each setting has a question mark icon to its right.

Configuring the device

These are instructions on how to easily read data from **Blue Puck/Coin** Bluetooth LE sensor with the chosen device.

First the device **Bluetooth settings** need to be configured. These are the required steps:

- Press Bluetooth settings.
 - Turn on **BT Radio** by pressing Enable (hidden) OR Enable (visible).
- Press Bluetooth 4.0 settings.
 - Select Advanced in **BLE connectionless functionalities** section.

General

BT Radio

Disable	Enable (hidden)
Enable (visible)	

Local Name

Local PIN

Security Mode

PIN only	PIN + MAC list
MAC list only	None

BLE connectionless functionalities

Connection #1

Mode

Working mode

Disabled

TZ-BT04/05/05B sensor

Advanced

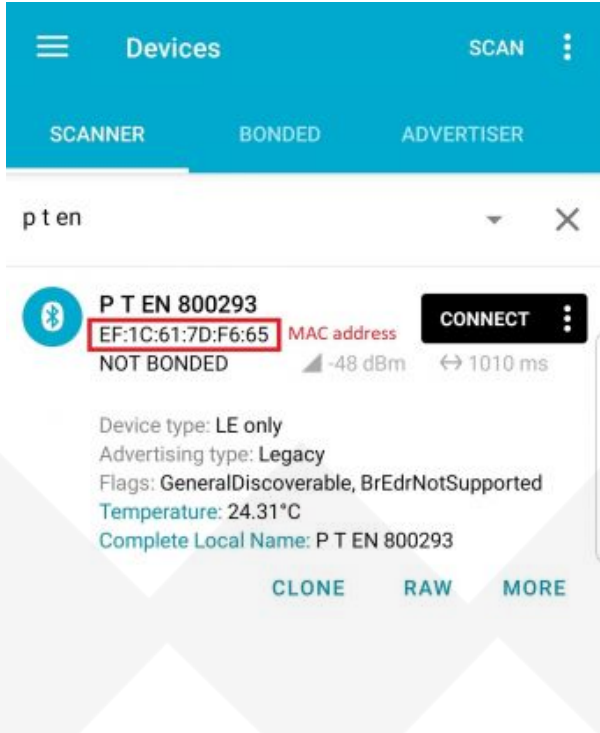
Settings

MAC

1st Sensor

Type	Data Offset	Data Size	Action	IO	Match	Endianness	Multiplier	Offset
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0
	0	0	Match	None		Little Endian	1	0

- Type your **Blue Puck/Coin** MAC address in MAC field. You can check what is your MAC address by using nRF connect for Mobile (<https://play.google.com/store/apps/details?id=no.nordicsemi.android.mcp>) app from *Google Play*.
- Configure the sensor fields according to the type of sensor used. More information about these settings can be found on Blue Puck/Coin presets section.
- After all these steps press Save to device to save configuration.
- To start BLE scan right away press Discover BLE.



To check if the device has already received data from **Blue Puck/Coin** Bluetooth LE sensor, follow these steps:

- Navigate to **Status** section.
- Press **I/O Info** and look if **BLE Temp**, **BLE Battery** and **BLE Humidity** has any values (depends on the type of sensor being used).

BLE Temp #4	251 °C
BLE Battery #4	93 %
BLE Humidity #4	310 %RH

Blue Puck/Coin presets

To read data from **Blue Puck/Coin** sensor, **Sensor** table must be configured with specified parameters to a particular sensor.

Blue Puck/Coin T

Bluetooth LE Temperature sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianness	Multiplier	Offset
FE	5	2	Match	None	6E2A	Little Endian	1	0
FE	7	2	Save	Temperature		Big Endian	0.1	0

Blue Puck/Coin RHT

Bluetooth LE Temperature and Humidity sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianness	Multiplier	Offset
FE	5	2	Match	None	6E2A	Little Endian	1	0
FE	7	2	Save	Temperature		Big Endian	1	0
FE	11	2	Match	None	6F2A	Little Endian	1	0
FE	13	1	Save	Humidity		Little Endian	1	0

Blue Puck/Coin MAG

Bluetooth LE Magnet sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianness	Multiplier	Offset
FE	5	2	Match	None	062A	Little Endian	1	0
FE	7	2	Save	Custom		Little Endian	1	0

Blue Puck/Coin MOV

Bluetooth LE Movement sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianness	Multiplier	Offset
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FE	5	2	Match	None	062A	Little Endian	1	0
FE	7	2	Save	Custom		Little Endian	1	0

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