

# QUICK START STEPS



## Register Device

Login to Sigfox Backend.  
Click New device.  
Create new device using the Device ID, PAC and your selected device type.

### Device - New

Device information

Identifier (hex)

Name

PAC

End product certificate

Where can I find the end product certificate?

Type

Lat (-90° to +90°)

Lng (-180° to +180°)

Map

Subscription automatic renewal

Activable

## Set Downlink

Edit the selected device type.  
Select DIRECT downlink mode and update the downlink data in hexa.  
Select "Custom grammar" for payload parsing and use "Occupied::bool:7 Keep-Alive::bool:0 Reset::bool:1 No\_Beacon::bool:2 Radar::bool:3 Obstruction::bool:4 Good\_Battery::bool:5 Temperature:1:int:8 Parking\_ID::uint:8 DEFx::int:8 DEFy::int:8 DEFz::int:8 Bx::int:8 By::int:8 Bz::uint:8 Fault\_Code::uint:8 Obst\_Val::uint:8 D/Reflect::uint:8" for custom configuration

### Device type teczip\_5574\_8f83 - Edition

Device type information

Name

Description

Keep alive (in minutes)

Subscription automatic renewal

Contracts

Alert email

Download mode  For more details on Downlink modes, please refer to documentation.  
Expression must either include hexadecimal encoded bytes (in `deadbeef`) or the following variables: `{time}` 4 bytes `{span}` 4 bytes `{inv}` 2 bytes `{beam}` 1 byte  
Downlink data in hexa

Payload display

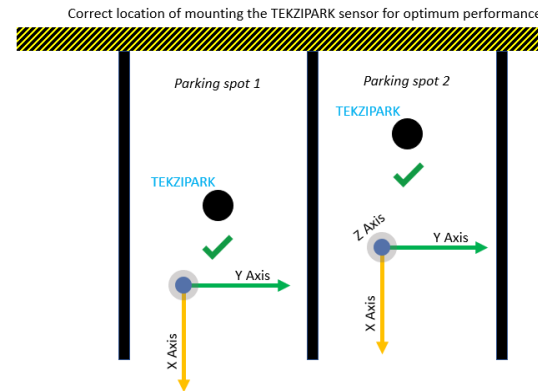
Select below the most suitable parsing mode for the display of your payloads in the backend (mostly appropriate for debugging and development)

Payload parsing

Custom configuration

## Install

Select your desired location.  
Bolt down the device with the bolts provided OR drill a hole in the ground for flush version.



## Magnetic Reset

Place a strong magnet over the device.  
Wait for the reset message to appear in the device messages screen.  
Wait for the downlink to finish.  
Device is now operational.

Time	Message	Status
2020-03-23 18:28:54	090b0e5d0cc000f3 Temp: 19.2 °C VDD: 3.395 V VDD: 3.165 V RSSI: -113.0	Downlink Success
2020-03-23 18:28:18	201202000000000000000000 Occupied: false Reset: false Temperature: 18 d/Reflect: 2 DEFx: 0 DEFy: 0 DEFz: 0 Bx: 13 By: 0 Bz: 11 Fault_Code: 0	Vacant state Message
2020-03-23 18:16:49	2212800d0f0c00000000 Occupied: false Reset: false Temperature: 18 d/Reflect: 138 DEFx: 13 DEFy: 15 DEFz: 12 Bx: 0 By: 0 Bz: 0 Fault_Code: 0	Reset Message

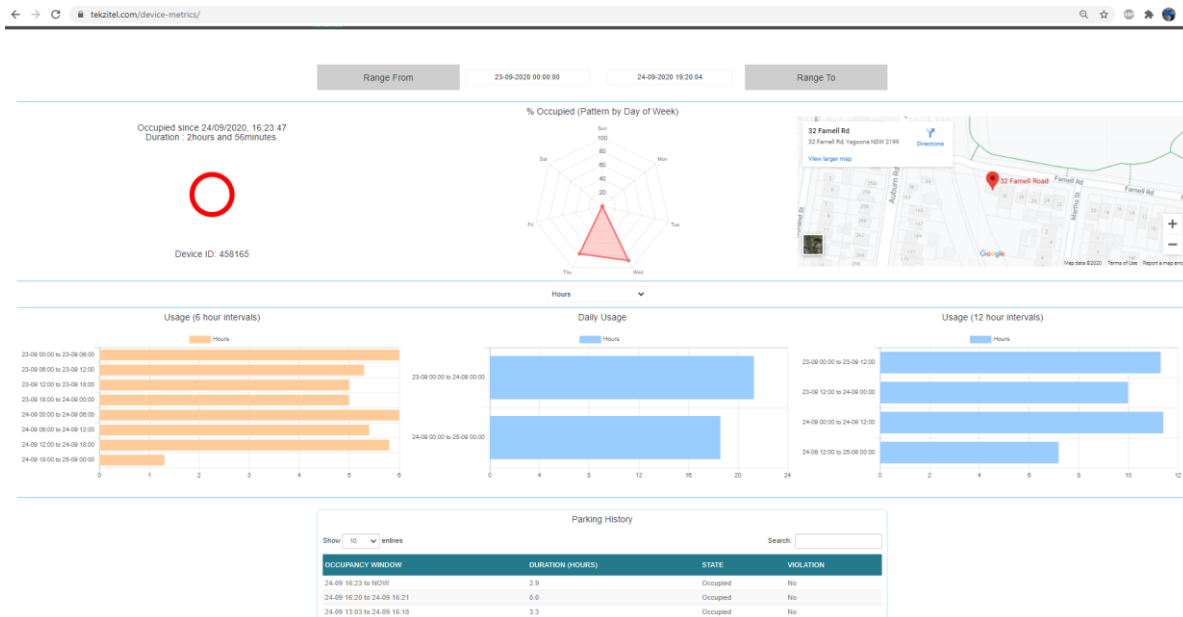


By default the device starts in debug mode, so that it is able to send sensor parametric information to help visualize device behaviour. Debug mode can be disabled via configuration of the device via a downlink message.

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TEKZITEL provides a miniature visualization utility that can help you to see the parking spot usage where the evaluation devices are installed. This can help as a showcase for customers.

The visualization is at <https://tekzitel.com/dashlanding>.



In order that you can utilise the above feature, a callback needs to be created for the device type under which the evaluation devices are registered as below.

1. Create a custom callback on the Sigfox backend
2. In Custom Payload Config enter -> `Occupied::bool:7 KeepAlive::bool:0 Reset::bool:1 No_Beacon::bool:2 Radar::bool:3 Obstruction::bool:4 Good_Battery::bool:5 Temp:1:int:8 Parking_ID::uint:8`
3. In URL pattern enter -> `https://tekzitel.com/test.php`
4. HTTP Method -> `POST`
5. Content type -> `application/json`
6. Body

```
{
  "data" : "{data}",
  "time" : "{time}",
  "sensor_id" : "{device}",
  "seqNumber" : "{seqNumber}",
  "occupied" : "{customData#Occupied}",
  "reset" : "{customData#Reset}",
  "keepAlive" : "{customData#KeepAlive}",
  "No_Beacon" : "{customData#No_Beacon}",
  "Radar" : "{customData#Radar}",
  "Obstruction" : "{customData#Obstruction}",
  "Good_Battery" : "{customData#Good_Battery}",
  "Parking_ID" : "{customData#Parking_ID}"
}
```

