

EDGE

Electronic device to measure throws of your R/C model



Manual version: 1.0

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Introduction

The EDGE device was designed to provide a precise solution to measure throws of R/C model. It can also be used in other applications where measuring of angle is needed, like Angle of Attack or thrust lines.

The EDGE has a built in exchangeable battery and it has a unique “gecko skin” type of sticker on bottom so it will hold on to a surface without any additional attachment required. It measures an angle based on integrated 3 axis accelerometer and sends measurements via BLE communication link to the associated Android app - EDGE.

Key features

- Lightweight at only **6.5 grams** with battery included. (almost no force on a control surface while being measured)
- Small: 25 mm x 22 mm x 11 mm.
- Auto off function integrated.
- Integrated LED which shows measure mode and device ID
- Multiple EDGE devices can be used at same time (up to 4 devices)
- Gecko skin like sticker on the back for easy attachment / detachment on surface
- User exchangeable battery (CR1220)
- Long battery life time! Up to 8 years on standby or up to 230 hours of measurements
- Plug & play with RC electronics EDGE app

How it works

Once user presses on a small black power on/off button, EDGE module will indicate its power on – measure mode with a blinking of LED. LED will blink every 2s and will indicate the EDGE ID for the application. LED blinks once, for EDGE 1, two blinks twice then EDGE 2. The Android EDGE app automatically addresses EDGE units with an ID when more than one EDGE is in use. If only one EDGE is in use, then it will always blink once.

If device does not establish a connection with the Android app within 1min, it will automatically turn off to save battery. Once connected to the app it will be on until either:

- User presses and holds on/off button for 2s (LED will go off)
- User closes the app, the unit will automatically turn off in 15s
- Communication with Android app is lost will also trigger automatic power off in 15s (for example - the Android device is more than 10m away)

While connected, EDGE will send angle measurement of angle with a rate of 5Hz, but it measures the angle with a rate of 100Hz.

Specifications

| | |
|--------------------------------|--|
| Device Dimensions | 25 mm x 22 mm x 11 mm |
| Weight | 6.5 grams |
| Temperature Range ¹ | -10°C ~ +60°C |
| Battery type | CR1220 |
| Battery life time | Up to 8h in idle, up to 230h in measuring mode |

¹ Specifications are taken from component ratings and system limits and may not have been tested to the full extent of the specified ranges.

Physical overview

On the front of the unit, we can see black on/off button and LED opening to show mode of operation (off or blinking ID). The underside has the Gecko skin sticker for attachment.



Using the EDGE unit

Powering the module

To power the module ON, press the black button for 1s

Mounting the module

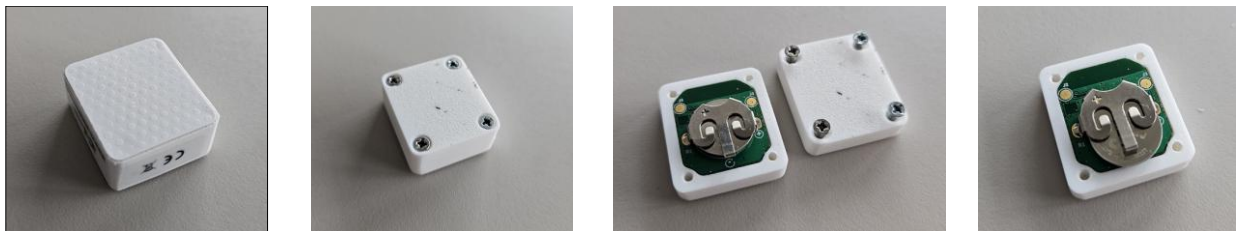
Before mounting the module to the measuring surface, clean the surface first to remove the dust. Dirty stickers will need regular replacement (2 extra stickers included in the package).

Place module on trailing edge of surface so the “HINGE” side is facing towards the hinge of surface and start trimming the model 😊 .



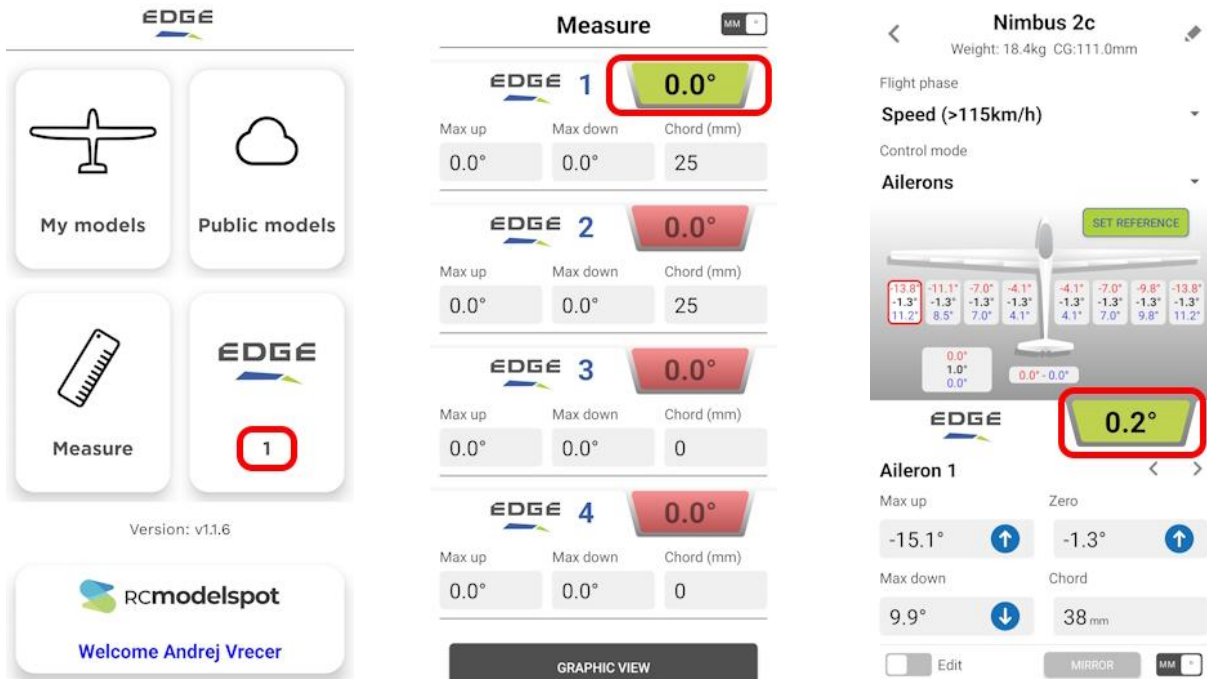
Changing battery

Remove bottom sticker and side sticker from EDGE module. On the bottom, there are 4x Phillips screws. Unscrew them to get to the battery. Slide out old battery and slide in new one. Screw back 4x Phillips screws and glue on new bottom sticker. Side decal is up to user if he still needs them or not.



Connecting module to the EDGE application

Simply open the EDGE app on your device and power on EDGE module. The main screen displays the connected status and number of connected EDGE devices, measurement screens show green for connected devices. **How to operate the measurements, please refer to EDGE application manual!**



Firmware update

Please refer to manual of EDGE application. EDGE application, if your Android device has a data connection, will offer update dialog once EDGE module connects to it and newer version is available.

Revision history

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| January 2026 | Initial release of user manual. |
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