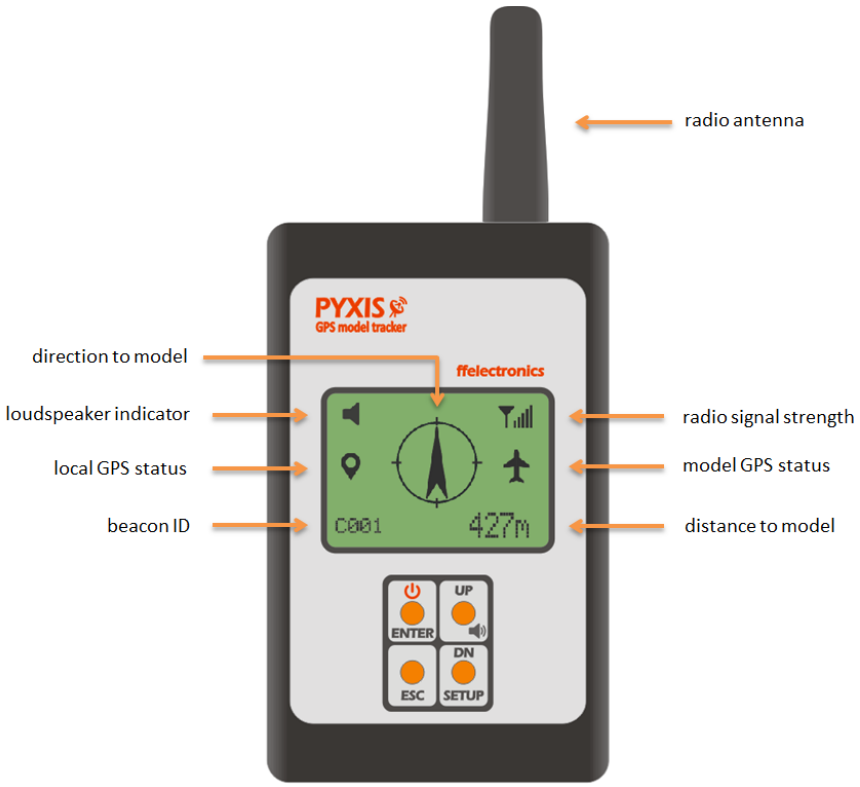
# PYXIS GPS – free flight model tracker

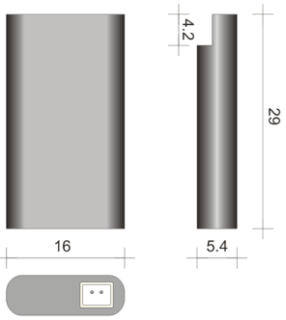
The **PYXIS GPS** is a retrieval system capable to take global positioning information from multiple satellite networks like GPS, GLONASS, Galileo, Beidou and other regional systems. It operates independently on any telephonic or internet reception and works anywhere on the Earth surface. The system is based on a pocket-sized unit (PYXIS receiver) held by the modeler and a tiny transmitter (PYXIS beacon) installed on the model. The beacon transmits periodically its position through a long-range radio link, and the receiver constantly calculates and displays the distance and the heading in a straight line to the model, whatever the route followed to approach it.

## PYXIS receiver




- All the information needed during the retrieval is shown in a single screen. The unit has a reflective liquid crystal display for excellent outdoors readability. An integrated loudspeaker is used for alerts
- The navigation is based on intuitive icons. The settings menus are simple and straightforward
- All the functions are accessible through only 4 pushbuttons, no mechanical on/off switch
- **track beacon** function, **go-home** function, integrated tilt-compensated e-compass calibration, fine direction adjustment, magnetic declination correction etc.
- The PYXIS receiver supports up to 30 different beacons, having each beacon its unique ID. New beacons can be bound to a receiver by the user through a simple procedure
- Battery duration exceeds 20 hours. The PYXIS receiver can be recharged like any mobile phone through a microUSB phone charger, portable power bank or car cigarette lighter adapter

# PYXIS beacon




**1:1 view**

- Tiny and light (2.3 grams)
- Fully sealed and waterproof fiberglass case
- Integrated long-range radio transceiver module
- Integrated GNSS module
- Integrated tilt sensor
- Power mini JST connector located on the bottom of the beacon
- Can use its own (1s LiPo 3.7Vdc) or share the Sidus G2 e-timer battery
- Auto-sleep function, auto-wake function for extremely long battery duration (36-48 hours)

# Operating the system

The system is designed to work outdoors only.

The beacon must be installed on the model with the radio antenna laid vertically and the flat dent of the case leaning out of the top of the fuselage.

After several tens of seconds from power on the devices become fully operative and the receiver will constantly display the current distance and direction to the model, whatever the route followed to retrieve it.