

**Oblò, the most compact efis on the market: integrate digital attitude indicator, primary flight data and optional autopilot in a compact and lightweight instrument.**

**Easy to install, it fits in a standard 3-1/8" (80 mm) cutout.**

**Easy to use, with all the features and configuration menu controlled by a single knob with button.**

**Designed as a backup instrument, also ideal for those who already have an EFIS as a replacement of the analog backup instruments.**

Oblò displays true aircraft attitude thanks to the integrated AHRS inertial platform, equipped with solid-state micromachined sensors (gyros, accelerometers and magnetometers) and a complex adaptive algorithm.

The two state-of-the-art calibrated pressure sensors provide the airspeed (airspeed indicator) and the altitude (altimeter), the latter with the possibility to fast set the pressure reference.

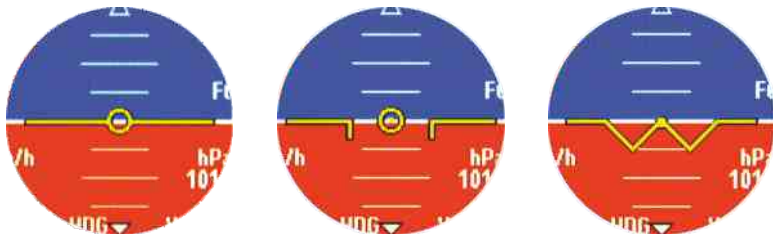
Unlike other products similar in size, Oblò does not display the speed and altitude taken from a GPS receiver, but calculates them by itself. The airspeed and altitude indications, based on pressure sensors, do not suffer the typical delays and errors of GPS-based indications.

Using state-of-the-art custom TFT LCD, the display is highly visible in direct sunlight. Display brightness is adjustable.



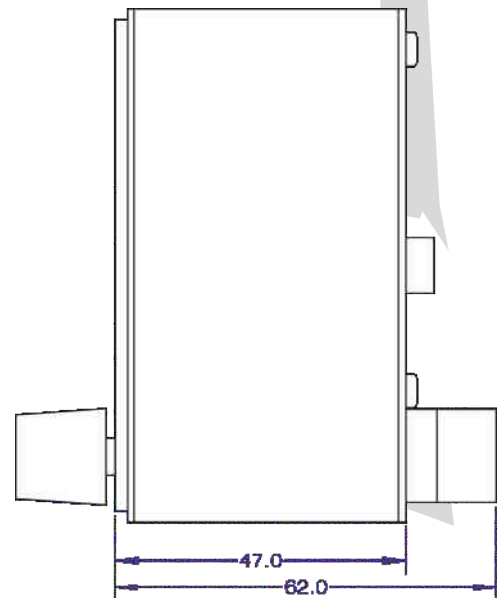
Accessing to the desired informations is easy and intuitive. In this picture, for example, you can see the G-meter peak memory.

Easily readable menu items, with auto-zoom on the selected item. Parameters setting is quick and straightforward. All units of measure are customizable.



Attitude director indicator can be selected between three different display modes.

The most compact EFIS on the market



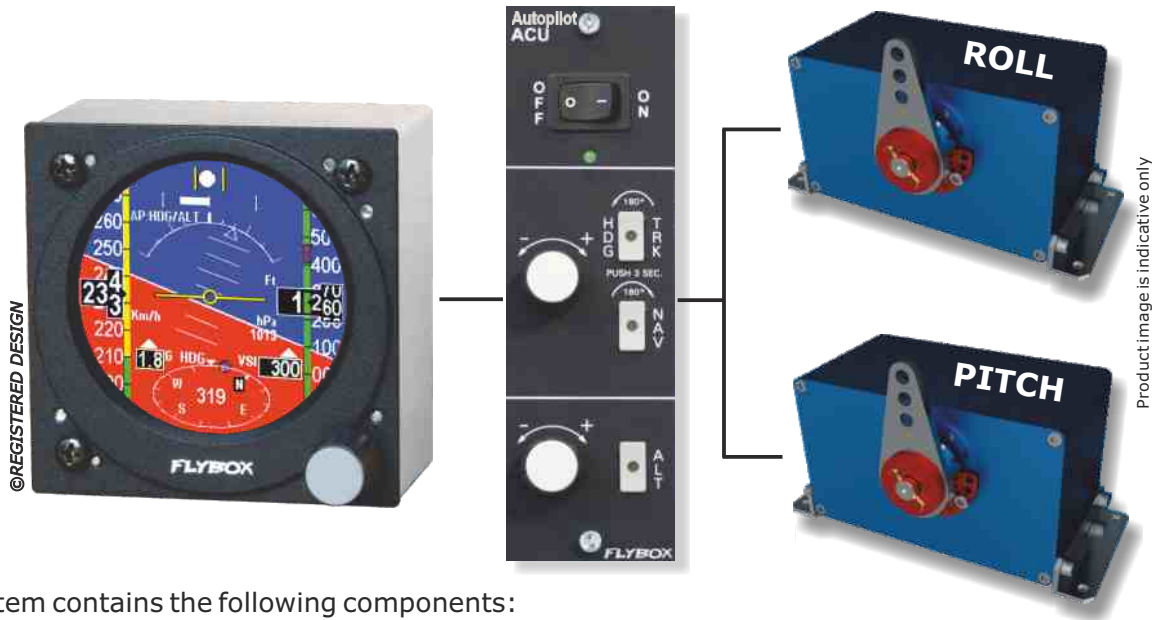
(Dimensions in millimeters)

#### SPECIFICATIONS:

- Size: 83W x 83H x 62D mm, fits standard cutout.
- Weight: 300 g.
- Power supply: 10~20 Vdc, 0.26 A.
- Operating temperature range: -4 ~ +158°F (20 ~ +70°C).
- Electrical connections via DSUB 15 pin connector.
- Brightness: 1200NITS, adjustable.
- USB port for software updates.
- CAN communication ports.
- RS232 port for GPS connection.
- RS232 port for transponder altitude serial out.
- Solid-state sensors, no moving parts.
- Altimeter with range -1000~+25000 feet (-300 ~ +7600 m).
- Airspeed with range 30~650 Km/h (16~350 knots or 18~403 mph).

# oblò-A/P (2 axis autopilot)

Oblò-A/P adds to the 8 flight instruments of the standard Oblò, a precise horizontal navigation and excellent altitude hold-vertical climb/descent, with safety features on min and max permitted speed. Keys for quick course reversal, right or left 180°. Navigation based on magnetic heading, GPS tracking, goto or flight plane from external GPS.



Autopilot system contains the following components:

- Flybox Oblò-A/P instrument.
- Autopilot Control Unit (ACU).
- One or two digital servos for 1 or 2-axis controlling.

If you already have a standard Oblò instrument, you can upgrade it to the autopilot version by purchasing a software activation key (cod. 801011).

## ACU - Autopilot Control Unit



The Autopilot Control Unit is the interface between Oblò instrument and servos, with fast and easy user controls: direct controls for each mode of operation and two knobs for quick set of heading/tracking and altitude.

The ACU is available in vertical or horizontal version.

## Digital servos

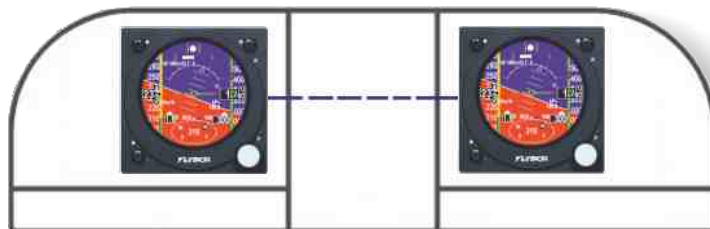
This digital servo has been designed to have maximum reliability and safety. It is made from solid aluminium with hardened steel gears. When not engaged it has no residual torque and when engaged it's reversible so the maximum safety is guaranteed: the pilot can override the servo at any moment to take the control of the airplane. The microprocessor monitors motor current, temperature and other parameters and it disconnects the servo if something is out of the normal operational condition. The maximum torque is 67 in-lb (7.5Nm).



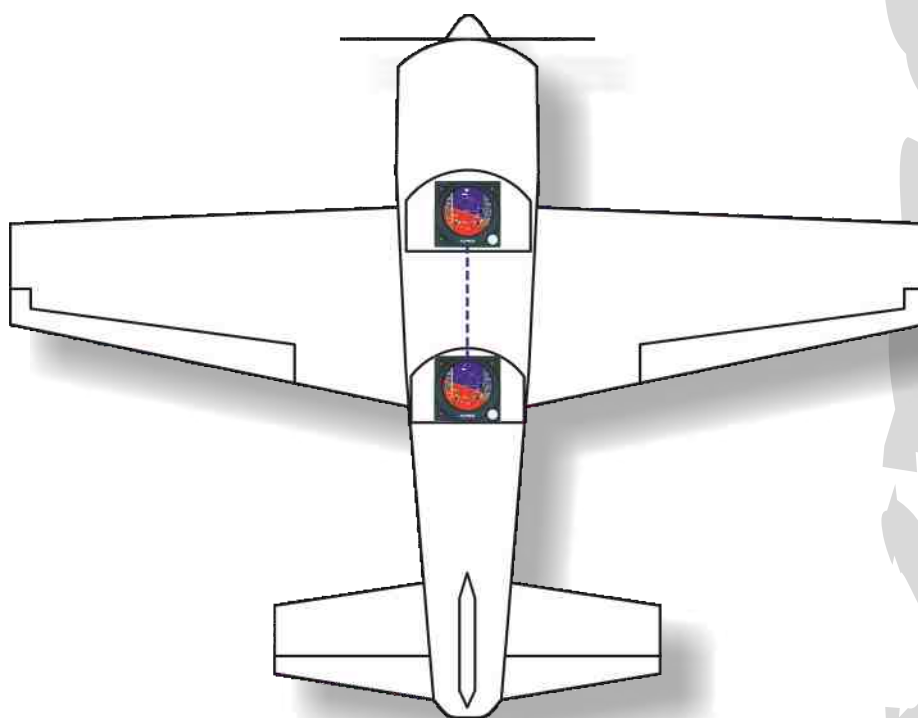
# oblò-REP (Repeater)

Oblò-REP, connected to a main Oblò unit (Oblò or Oblò-A/P models), allows viewing the data also on the copilot side. With an affordable solution it's possible to have the flight data in two locations (all the data displayed on the main Oblò will be displayed on the Oblò-REP).

The settings are independent (you can, for example, set a different unit of measure).



Installation example on copilot side of instrument panel.



Installation example on tandem configuration.

## Accessories

**BACKUP SYSTEM:** The backup system is designed to supply power to the Oblò instrument even in the absence of main power supply, or during engine start.

**WIRINGS:** Ready to use wiring harnesses are available for Oblò, Oblò-A/P and for ACU/servos connection.

**GPS RECEIVER MODULE:** If you do not have any GPS device with NMEA output that you can connect to the Oblò, you can buy this GPS receiver module. It will enable the tracking indications in the Oblò and will also be used for automatic correction of the magnetic declination and to perform the magnetic calibration procedure.

Visit [www.flyboxavionics.it](http://www.flyboxavionics.it) for updated informations on all available accessories.

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