

KANARDIA

Fly with the attitude.



THE COMPLETE NAVIGATION, FLIGHT AND ENGINE SYSTEM
FOR ULTRALIGHT AIRPLANES, AUTO-GYROS AND HELICOPTERS.

NESIS

ACCESSORIES



Kit 3790 €*

The kit consists of Nesis, built-in AD-AHRS-GPS module, EMS unit (Daqu), cables, GPS antenna and OAT sensor on cable.

NESIS III

Weight	1130 g
Size	215 x 175 x 65 mm
Power	980 mA**



DAQU

Weight	135 g
Size	135 x 80 x 20 mm
Power	100 mA

THE NESIS FAMILY OF AVIONICS IS A SELF-CONTAINED STATE-OF-THE-ART NAVIGATION INSTRUMENT OPTIMIZED FOR ULTRALIGHT AEROPLANES, AUTO-GYROS AND HELICOPTERS. ALL UNITS ARE LIGHTWEIGHT WITH LOW POWER CONSUMPTION.

Features: touch screen and button control, sunshine readable display, classic six pack page with AHRS and map, navigation page, engine page, modern multi view page, 3D terrain, voice alarms, direct to or route navigation, real time wind calculation support, student page, multi-language interface, vector and raster maps, DFS ICAO and Visual 500 maps, Open Flight Maps, fuel computer, glide computer, engine cooling countdown, maintenance reminder, logbook, logbook exports, multi user options, flight export to Google map, user waypoints import from Google map or Garmin GPX, real time ADS-B and Flarm traffic advisory support, NMEA out for transponder, helicopter and gyroplane support, gyroplane pre-rotation warning light, autopilot support, areal surveying support, 6 cylinder engines, carbon monoxide detector option.

* All prices in brochure are net prices without VAT. ** Power is defined as electrical current at 12 V.

MAGNETIC COMPASS (MAGU)



Weight	64 g
Size	72 x 62 x 23 mm
Power	25 mA

450 €

Magnetic compass in combination with AD-AHRS-GPS module provides accurate real time wind calculation, provides heading direction and contributes to AHRS precision.

SECONDARY EMSIS



80 mm	Weight	235 g
	Size	82 x 82 x 45 mm
	Power	90 mA
3.5"	Weight	242 g
	Size	112 x 69 x 45 mm
	Power	138 mA

690 €

Emsis may be added, too. In this case Emsis typically shows engine instruments, but it may also show primary flight display or simple map.

COMMAND STICK (JOYU) AND DRIVER BOX (BOXI)



Stick	Weight	166 g
	Size	140 x 65 x 45 mm
	Power	25 mA

Boxi	Weight	95 g
	Size	74 x 70 x 23 mm
	Power	25 mA

450 €

Command acts as a remote control for Nesis and adds functionality to autopilot. It works with Boxi, who controls pitch and roll electrical trims and radio transmission.

ROUND INSTRUMENTS



57 mm	Weight	150 g
	Size	62 x 62 x 45 mm
	Power	102 mA

80 mm	Weight	201 g
	Size	82 x 82 x 45 mm
	Power	105 mA

200 €

Various round 57 or 80 mm gauges or Digi display may also complement the system.

AUTOPILOT SERVOS



Weight	970 – 1310 g
Size	102 x 99 x 63 mm
Power	1 – 2 A

450 €

Nesis already includes full functionality for autopilot. When two servos are connected to Nesis, autopilot becomes operational. The following functions are available: altitude hold, heading hold, flight director mode, vertical speed hold.

CARBON MONOXIDE SENSOR



200 €

CO DANGER

This sensor is optionally built into Nesis and it is able to give you an early warning of this lethal gas.

SECONDARY NESIS

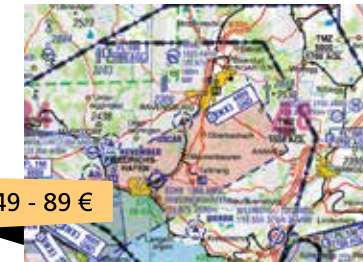


Weight	1100 g
Size	215 x 175 x 65 mm
Power	950 mA

2050 €

Additional Nesis may be added. This one does not have built-in AD-AHRS-GPS module.

DFS OR OPENFLIGHTMAPS RASTER MAPS



49 - 89 €

DFS: Germany, Holland, Swiss, Austria, Belgium, Denmark, Hungary, Czech republic, Poland, Croatia
OpenFlightMaps: Germany, Austria, Swiss, Hungary

EMSIS

ROUND INSTRUMENTS

EMSIS PFD

Kit 80 mm 1090 €

Kit 3.5" 1170 €



This simple instrument has all what you expect from a PFD (primary flight display). It can act as a main standalone PFD or as a perfect back-up instrument.

EMSIS 80 mm

Weight	298 g
Size	82 x 82 x 65 mm
Power	128 mA

EMSIS 3.5"

Weight	312 g
Size	112 x 69 x 65 mm
Power	168 mA

EMSIS EMS

Kit 80 mm 990 €

Kit 3.5" 1070 €



Advanced monitoring system for aircraft engines. A simple to use and affordable engine information system which can be used in conjunction with NESIS or as a standalone instrument.

EMSIS 80 mm

Weight	298 g
Size	82 x 82 x 65 mm
Power	128 mA

EMSIS 3.5"

Weight	312 g
Size	112 x 69 x 65 mm
Power	168 mA

Features: sunshine readable display, AD-AHRS page, engine page, optional map page, real time wind calculation support, DFS ICAO and Visual 500 maps, Open Flight Maps, fuel computer, logbook, logbook exports, multi user options, flight export to Google map, helicopter and gyroplane support, 6 cylinder engines support.

ACCESSORIES

- Magnetic compass (PFD only)
- Command stick (Joyu) and driver box (Boxi)
- Secondary Emsis
- DFS or OpenFlightMaps raster maps (PFD only)
- Round instruments

ALTIMETER



350 € (standalone version)

- Standalone version
- Slave version (requires Emsis PFD or Nesis on the bus)
- 80 mm size with two needles
- 57 mm size with one needle.
- Illumination knob option
- Scale in meters or feet.
- QNH in hPa or in inHg.
- Standard calibration to 6000 m or extended calibration to 15000 m.

57 mm	Weight	180 g
	Size	62 x 62 x 45 mm
	Power	110 mA

80 mm	Weight	238 g
	Size	82 x 82 x 55 mm
	Power	120 mA

AIRSPEED INDICATOR



350 € (standalone version)

- Standalone version
- Slave version (requires Emsis PFD or Nesis on the bus)
- 57 and 80 mm size.
- Standard speed range up to 320 km/h
- Extended sensor range option (up to 450 km/h)
- Custom defined scales.
- Outside temperature sensor option.
- True airspeed calculation option.
- Flight time option.

57 mm	Weight	160 g
	Size	62 x 62 x 45 mm
	Power	102 mA

80 mm	Weight	210 g
	Size	82 x 82 x 82 x 45
	Power	105 mA

VERTICAL SPEED INDICATOR (VARIOMETER)



200 € (slave 57 mm version)

350 € (standalone version)

- Standalone version
- Slave version (requires Altimeter or Emsis PFD or Nesis on the bus)
- 57 and 80 mm size.
- Metric scale, scale in feet/min or combined scale.
- Optional beeping audio output (standalone only).

57 mm	Weight	150 g
	Size	62 x 62 x 45 mm
	Power	102 mA

80 mm	Weight	201 g
	Size	82 x 82 x 82 x 45
	Power	105 mA

ENGINE RPM INDICATOR



250 € (57 mm, standalone with engine time recorder)

- Standalone version
- Slave version (requires Daqu on the bus)
- 57 or 80 mm size.
- Standard scales for Rotax, D-motor and Lycoming engines.
- Custom scales option.
- Engine time recorder option.

57 mm	Weight	150 g
	Size	62 x 62 x 45 mm
	Power	102 mA

80 mm	Weight	201 g
	Size	82 x 82 x 82 x 45
	Power	105 mA

DIGI – ENGINE MONITORING

HORIS

Kit 850 €

500 € (slave)

- Ideal OEM solution for cost sensitive applications.
- High level of customization.
- Visual alarms for all parameters.
- Can be used as a standalone (together with Daqu or mini Daqu)
- or in combination with Nesis or Emsis kits.
- Optional data logger.

The kit consists of Digi, data logger, Daqu and cables.



DIGI	
Weight	139 g
Size	117 x 71 x 17 mm
Power	169 mA

Kit 80 mm 950 €

Kit 57 mm 850 €

NEW!



Parameters:

- attitude
- indicated airspeed
- true airspeed
- altitude
- QNH setting
- balance
- turn rate
- vertical speed
- track
- outside air temperature

State of the art AD-AHRS unit suitable for installation to standard aviation openings.

Features: Very low power consumption, compact design, stable attitude during sustained turns (suitable for gliders).

Available in 57 and 80 mm size

HORIS 57 mm

Weight	176 g
Size	62 x 62 x 45 mm
Power	155 mA

HORIS 80 mm

Weight	235 g
Size	82 x 82 x 45 mm
Power	135 mA

DAQU

Engine daqu acquisition unit for common aviation engines up to 6 cylinders. Supports three digital channels and 22 analogue channels of different types. It has a built-in sensor for the manifold pressure.

MINI DAQU

Miniature engine data acquisition unit for modern engines equipped with digital ECUs (Rotax iS, D-motor, ...)

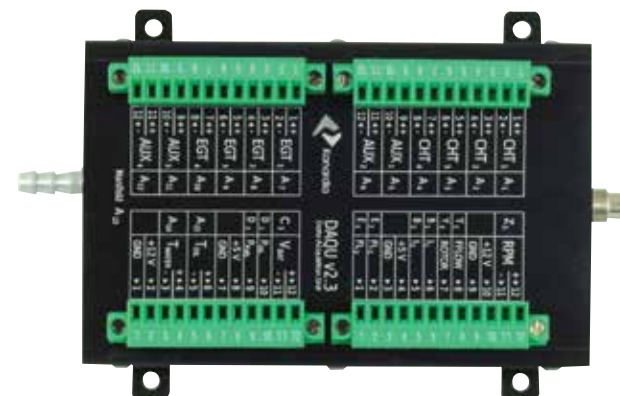
Most of the engine information is already provided by the engine ECU. Mini Daqu simply retransmits this info onto Kanardia CAN bus protocol. However, some parameters are not available from ECU and they can be connected to mini Daqu: fuel pressure, fuel level, rotor RPMs, trim positions, gearbox temperature ...

NEW!



MINI DAQU

Weight	82 g
Size	75 x 45 x 30 mm
Power	95 mA



DAQU

Weight	165 g
Size	125 x 80 x 19 mm
Power	102 mA

COMBO BACKUP INSTRUMENT

Kit 650 €

NEW!



- 50 or 80 mm size
- Battery allows at least 60 min of standalone operation.
- High speed sensor option (450 km/h).
- Knob for QNH adjustment.
- Automatic switch to backup power.
- Automatic recharge from system bus.

This instrument combines airspeed, altitude and vario in one unit. It is intended to be used as backup instruments, which effectively replaces three instruments. It comes together with external backup battery.

COMBO 57 mm

Weight	160 g
Size	62 x 62 x 45mm
Power	102 mA

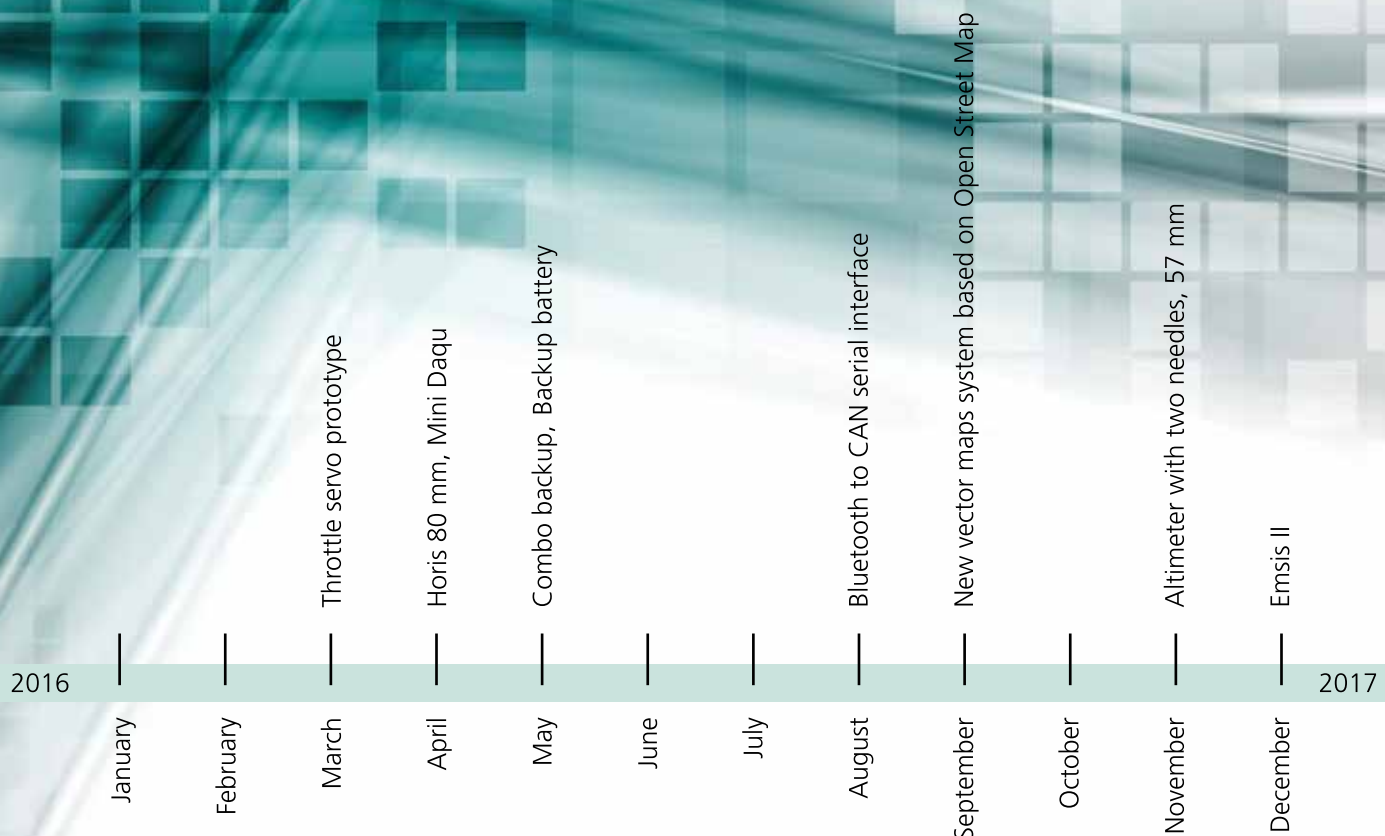
COMBO 80 mm

Weight	210 g
Size	82x82x82x45
Power	105 mA

Backup battery

Weight	92 g
Size	80 x 38 x 30
Power	200 mA

NEW IN 2016



KANARDIA

Fly with the attitude.

Kanardia is developing and producing high performance avionics for ultralight aeroplanes, helicopters and autogyros. The most important features of all our instruments are an intuitive, easy to use interface, lightweight design, reliable and fast hardware for competitive prices.

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