



## **ANV-801 MULTIFUNCTIONAL CONTROL DISPLAY UNIT**

Selex ES is specialized in the design, development and production of a large variety of Avionics products for military and commercial aircraft applications since the past decades.

Several thousands units of these products have been supplied for use in different types of military and commercial aircrafts for Autonomous Navigation, Radio Navigation, Landing, Communication and Identification.

In particular the experience gained by Selex ES in many years of design and production of Navigation Systems, has led into the achievement of remarkable goals such as a significant reduction in size, weight and cost over current systems enhancing performance capabilities and reliability.

The ANV-801 is the core element of a multi-sensors navigation system for rotary and fixed-wing aircraft applications. The ANV-801 maximizes the aircrew efficiency by replacing multiple control layouts with a single, easy to read and manage unit.

The ANV-801 display is based on the LED technology and it is available with an embedded GPS sensor, providing a self contained navigation capability.

Additionally the ANV-801 can integrate external sensors (such as Doppler Velocity Sensors, INS, Airspeed sensors, etc.), into the system to create sophisticated navigation package to provide a high accuracy navigation capability.

The ANV-801 process data received from radio navigation sensors including VOR, DME, TACAN, LORAN as well as landing sensors such as ILS, MLS, MMR. The equipment provides navigation information to the pilots and steering output to Flight Director and Autopilot. The ANV-801 can interface a wide range of analog and/or digital displays and Indicators and provides output to EFIS, HSI, ADI and Hover Indicators. All on board communication, navigation, landing and IFF radios are easily managed with the ANV-801 both in manual and automatic mode.

A dedicated connector is also available on the front panel to connect the unit to a standard PC allowing the upload/download of previously stored data including waypoints and settings.

As growth capability the unit can support embedded RAIM.

The unit can also load the aeronautical info data base Jeppesen as well as specific mission data by means of dedicated ARINC429.

### MAIN FEATURES

- Embedded GPS
- Avionic Navigation Subsystems management
- Communications management
- Displays management
- Continuous alarm monitoring
- Arinc 429
- Database management
- Discrete and analog interfaces
- Interface to Flight Director, Autopilot, AHRS, INS etc.
- Interface to indicators (ADI, Hover Indicators, EFIS etc.)
- Cost effective

### WEIGHTS AND DIMENSIONS

Length Width Height Weight

185 mm 146 mm 181 mm 4.7 Kg max\*

\* with GPS embedded.

### TECHNICAL CHARACTERISTICS

Display	Led 8 lines of 16 characters
Human interfaces	Operator controls designed in accordance with MIL-STD-1472 guidelines
Screen size	90 x 90 mm
Keyboard	12 Line Keys 38 Alphanumeric Keys 7 Control Keys 9 Function Keys
Annunciators	8
<b>Physical</b>	
Power requirement	27.5 VDC (MIL-STD-704), less than 50 W
<b>Environmental</b>	
Environment	As per Air and MIL-STD Standards
EMI/EMC	MIL-STD-461B, MIL-STD-462
Manufacturing	AQAP 1 – AQAP 13, ISO 9001
Standard interfaces	ARINC 429 (up to MIL-STD-1553B DISCRETES Hover Steering Indicator
Optional interfaces	AD/DA ANALOGS MODEM SERIAL CUSTOMER
Special features	NVG Manual and automatic brightness control by Ambient Light Sensor (ALS) Remote brightness control Interruptive, Continuous and Power-on BIT Built-in GPS