

GPS MARG-2108



Ruggedised GPS Receiver for High Speed Aircrafts with ARINC 429 Interface. Certified by CEMILAC.

FEATURES

- Operating on Navstar Satellites Constellation for GPS
- Rugged and Robust for military use
- Tracks all satellites in view
- Designed to meet the environmental standards as per MIL-STD-810E, 461C, 704D
- Data stored in Flash (NV) memory
- Dual Control and Display
- Quick mode selection through rotary switch
- Annunciator to show the mode of operation and message
- Position in Lat/Long, IGRS and UTM
- Emergency navigation to nearest way point
- Provision to store 175 way points with Time & Elevation field and 26 routes with 20 way points in each
- Way point creation in terms of Range and Bearing, w.r.t current position or another way point
- Provision to store 10 current position
- ETA, TTG and Commanded ground speed
- Hardware ready for DGPS operation
- Visual arrival alarm
- Graphical Course Deviation Indicator (CDI)
- Access to Jeppessen data
- Data transfer from and to DEX or PC
- **Navigation Features**
 - Fly Direct to a way point
 - Velocity upto 1.6 Mach,
 - Acceleration upto 9.0g functional 13.5g structural
 - Approach way point with a given angle and distance
 - Join leg
 - Vertical Navigation
 - Flight Plan navigation
 - Fly to Nearest (20 Nearest way point available in any category)
 - Simulation mode (Dead Reckoning) for ground checks and training

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SPECIFICATIONS

Receiver	8 channel L1, Frequency, C/A Code Tracks all satellites in view
Accuracy	25m without SA (PDOP <3) Velocity : 0.1m/s
Acquisition time	< 60 seconds - warm start < 7 minutes during cold start
Position update rate	Once per second
Display	3 line 16 character LED display. NVG compatible with brightness control, Dual Display
Keyboard	Back lit Membrane Key switches
Power	12 to 36V DC (<25W @ 28V)
Interface	1 x RS 232, ARINC 429
Antenna	
Type	Micro strip patch antenna
Polarisation	Right hand circular
Frequency	1575 ± 10MHz
LNA Gain	35 dB (Typ.)
Termination	TNC -F
Enclosure	Aluminium alloy as per IS:736
Size	Receiver – 235L x 130W x 58H (mm) Control & Display - 145L x 80D x 95H (mm)
Weight	Total - 3 Kg
Temperature	
Operating	- 40°C to +70°C
Storage	- 55°C to + 85°C
Humidity	95% RH @ 60°C
Environmental	As per MIL STD 810 E
EMI/EMC	As per MIL STD 461 C
Electrical	As per MIL STD 704 D

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ASL reserves right to amend or alter
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