

# GPS MARG-9405N

Ruggedised GPS Receiver for High Speed Aircrafts



A sleek three module GPS Receiver, ideally suited for fighter aircraft with restricted space in the cockpit. 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 810 E ,461C, 704E
- Data stored in Flash (NV) memory
- Quick mode selection through rotary switch
- Annunciator to show the mode of operation and message
- Position in Lat/Long, IGRS
- Emergency navigation to nearest way point
- Provision to store 250 way point and 26 routes with 20 way point in each
- Way point creation in terms of Range and Bearing, w.r.t current position or another way point
- Creation of two Moving 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
  - Fly to Moving way point
  - 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)

**ASL**

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### SPECIFICATIONS

<b>Receiver</b>	8 channel or higher L1, Frequency, C/A Code Tracks all satellites in view
<b>Accuracy</b>	30m without SA; 100m with SA (PDOP <3) Velocity : 0.1m/s
<b>Acquisition time</b>	< 60 seconds - warm start < 7 minutes during cold start
<b>Position update rate</b>	Once per second
<b>Display</b>	3 line 16 character LED display. NVG compatible with brightness control
<b>Keyboard</b>	Back lit Push button key switches
<b>Power</b>	12 to 36V DC (<15W @ 28V)
<b>Interface</b>	1 x RS 232
<b>Antenna</b>	
Type	Micro strip patch antenna
Polarisation	Right hand circular
Frequency	1575 ± 10MHz
LNA Gain	35 dB (Typ.)
Termination	TNC -F
<b>Enclosure</b>	Aluminium alloy as per IS:736
<b>Size</b>	Receiver - 235 x 130 x 58 (mm) Display - 145 x 90 x 45 (mm) Keyboard - 145 x 60 x 45 (mm)
<b>Weight</b>	Total < 2.5 Kg
<b>Temperature</b>	
Operating	- 40°C to +85°C
Storage	- 50°C to + 85°C
<b>Humidity</b>	95% RH
<b>Environmental</b>	As per MIL STD 810 E
<b>EMI/EMC</b>	As per MIL STD 461 C

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