



## Genesys Control Panel

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The Genesys Control Panel (GCP™) is a panel-mount, software-defined radio control panel designed to interface with the Genesys Digital Radio (GDR™) product family. The GCP provides dedicated controls for frequently needed audio/ radio controls, as well as additional controls for selecting and setting parameters. The GCP is designed for both fixed-wing and helicopter aircraft applications. The GCP has the capability to control radio functions via RS-232 or RS-422 serial interfaces. The GCP is NVG compatible for night operations.

Features of the GCP include:

- Small, light weight, with high reliability
- NVG Compatible
- DO-160G Environmental Qualifications
- RTCA DO-178C Certified
- Utilizes 28 VDC aircraft power
- DO-178C: Level A software
- TSO-C113B Compliant
- RS-232 and RS-422 control
- Non-ITAR

## Specifications

### Dimensions:

Width: 5.75" (146.05mm)

Height: 1.875" (47.625mm)

Depth: 1.729" (43.917mm) (depth behind panel)

Weight: <1.2 lbs (0.544 kg)

### Environmental:

RTCA/DO-160G:

F2[XXX[,B,B,B[,H,R,U],X,W,X,S,F,S,Z,Z,A,Z,[ZC],[YK],M,[A3J3L3],X,X,A,C

MIL-STD: 704E, 810G

### Temperature & Altitude:

Cat F2: -55C - +70C operating temperature, +55,000 ft altitude

### Temperature Variation:

Cat B: 5 deg C / min

### Humidity:

Cat B

### Operational Shock & Crash Safety:

Cat B

### Vibration:

Cat H+R+U: Cat H, Curve R - Cat R, Curves B/B1 - Cat U - Curve G

### Waterproofness:

Cat W

### Sand & Dust:

Cat S

### Fungus Resistance:

Cat F

### Salt Fog:

Cat S

### Magnetic Effect:

Cat Z

### Power Input:

Cat Z

### Voltage Spike:

Cat A

### Audio Frequency Conducted Susceptibility - Power Input:

Cat Z

### Induced Signal Susceptibility:

Cat ZC

### Radio Frequency Susceptibility (Radiated & Conducted):

Cat YK

### Emission of Radio Frequency Energy:

Cat M

### Lightning Induced Transient Susceptibility:

Cat A3J3L3

### Electrostatic Discharge (ESD):

Cat A

### Fire, Flammability:

Cat C

### Power Requirement:

10W Maximum @ 9 - 32 VDC

### Control Buses:

RS-422

RS-232

### Voltage Input:

28 VDC

### Discrete Inputs:

GCP Address

Program Enable

NVG Mode

### Export:

Non-ITAR, ECCN 7A994

### TSO:

TSO-C113B: Airborne Multipurpose Electronic Displays

### MOPS:

AS8034C

