



## G6990-51 ATC/TCAS Control Panel

### GENERAL SPECIFICATIONS

#### Dimensions

- 2.235 (height) x 5.735 (width) x 5.0 (depth) inches, excluding rear connectors

#### Weight

- 2.0 pounds (max)

#### ATC Code Range

- 0000 to 7777 (Octal)

#### Electrical Requirements

- Power ..... 115 VAC @ 400 Hz, 5 Watts (max)
- Panel Lighting (Incandescent White) ..... 5 VAC variable
- Indicator Lighting (Incandescent White) ..... 28/12.5 VDC dimming input voltage

#### Connectors

- J1 Mating: M83723-75R16247, or equivalent 24 pin connector
- J2 Mating: M83723-75R16248, or equivalent 24 pin connector



# G6990-51 ATC/TCAS Control Panel

## Color

- Front Panel – Non-reflective Gray FED STD 595b36118
- Knobs – Non-reflective Black FED STD 595b37038
- Front Panel Markings – White FED STD 595b37875 (Futura Medium Condensed font)
- Push Buttons – Non-reflective Black FED STD 595b37038

## Compliance

- RTCA/DO-160B (Environmental), RTCA/DO-178A (Software), RTCA/DO-181 (ATCRBS/Mode-S), RTCA/DO-185 (TCAS)
- ARINC 429, ARINC 706, ARINC 718, ARINC 720, ARINC 735

## Certification

- TSO-C112, TSO-C119b

## Features

- Dual Mode-S configuration
- Transponder fail indicator (amber)
- Ident function
- Keypad entry for ATC code
- Altitude reporting OFF-ON
- Altitude source 1-2 selection
- Transponder 1-2 selection
- Transponder STBY/ON/AUTO function
- TCAS TA only, TA/RA
- System test function
- ABV/N/BLW function
- Altitude limit range: A = 2,700 ft, B = 7,000 ft
- Built-in-test (BIT) capability
- Non-volatile storage of ATC code
- Modular design provides flexibility for custom layouts
- Modular construction contributes to economical maintenance
- MTBF (Calculated): 15,000 operating hours

## Gables Engineering Inc.

247 Greco Avenue, Coral Gables, Florida 33146  
Tel: (305) 774-4400 • Fax: (305) 774-4465  
[www.gableseng.com](http://www.gableseng.com)

Proprietary Information  
2/14/05 • Rev. 05