



G7490-04 Flight ID/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)

Electrical Requirements

- Power 115 VAC @ 400 Hz, 5.0 Watts True Power (max)
 - Normal Operation, Panel Lights at Full Bright 8.0 Watts (max)
- Panel Lighting* (White LEDs) 0 - 5 VAC

* Minimal current required – only used for brightness level monitoring

- One ARINC 429 output and input per Mode-S connector

Connectors

- J1 Mating: M83723-75R-16247, or equivalent 24 pin cadmium plated connector
- J2 Mating: M83723-75R-16248, or equivalent 24 pin cadmium plated connector



g
a
b
l
e
s
e
n
g
i
n
e
e
r
i
n
g

G7490-04 Flight ID/ATC/TCAS Control Panel

Color

- Front Panel – Non-reflective Gray FED STD 595b36118
- Knobs – Boeing Gray BAC #705
- Front Panel Markings – White FED STD 595b37875 (Futura Medium Condensed font)
- Push Buttons – Non-reflective Black FED STD 595b37038
- ATC & Flight ID Indicators - White LED
- Transponder Fail Indicator (XPDR FAIL) - Amber LED

Compliance

- RTCA/DO-160D (Environmental), RTCA/DO-178B (Software), RTCA/DO-181 (ATC), RTCA/DO-185 (TCAS)
- ARINC 429, ARINC 718A, ARINC 720, ARINC 735

Certification

- TSO-C112, TSO-C119b

Features

- Replaces Rockwell Collins p/n 622-8974-001
- Pin for pin compatible with existing (Gables) Dual Mode-S transponder control panels
- Indicator dimming input supports Boeing, McDonnell Douglas and Airbus
- Liquid spill-proof design
- White LED display and panel lighting for higher reliability
- Reverse Contrast Twisted Nematic (TN) LCD Display
- Reliable switch design (one million actuations)
- Built-in-test (BIT) capability
- Flash technology to support bench-level reprogramming using a PC
- Modular design provides flexibility for custom layouts
- Modular construction contributes to economical maintenance
- Dual Mode-S control panel
- Dual set of electronics
- MTBF (Calculated): 30,000 operating hours
- TCAS Options
 - TA/RA, TA Selection
 - Functional Test
 - Altitude Limits:
 - ♦ A = 2,700 ft, B = 9,900 ft or 7,000 ft
- ATC Options
 - Altitude Reporting: ON-OFF or 1-OFF-2
 - IDENT
 - FLIGHT ID
- Customized variants available upon request

Gables Engineering Inc.

247 Greco Avenue, Coral Gables, Florida 33146
Tel: (305) 774-4400 ♦ Fax: (305) 774-4465
www.gableseng.com

Proprietary Information
1/20/04 ♦ Rev. 01