

P R O V E N

Quality, Dependability and Reliability

The AvtechTyee 5900 series of configurable, Display Control Panels (DCP) provides the needed customer user interface to Rockwell Collins 5 ATI series of flat panel displays. The DCP program, in conjunction with Rockwell Collins 5ATI displays, provides EFIS functionality to standard and "classic", electromechanical aircraft and allows a single, configurable baseline design that provides a common fleet solu-



MULTIPLE USER INTERFACES AVAILABLE

There are over twenty five versions of the 5900 series DCPs that all share a common electronic and software core. The only difference is the custom user interface. This philosophy of easy reuse has helped make the Collins 5 ATI program successful.

- Versatile design provides a single hardware and software core for all available configurations
- Certified on Air Transport, Helicopter and Military aircraft.
- Military NVIS configurations available
- The DCP accepts both 28 VDC and 115 VAC 400 Hz inputs for maximum aircraft flexibility
- The DCP accommodates the following control functions: 16 momentary push buttons; 16 toggle pushbuttons; 4 rotary switches; 3 rotary select controls; 2 pushbutton selects; and 1 cursor or joystick.
- The DCP accepts a total of four ARINC 429 high speed data bus inputs and two ARINC 453 inputs.
- The DCP provides two ARINC 429 outputs and one ARINC 453 output

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SPECIFICATIONS

ENVIRONMENT	RTCA DO-160C SECTION, CATEGORY
Temperature and Altitude	Section 4.0, Category A1
Temperature Variation	Section 5.0, Category C
Humidity	Section 6.0, Category A
Vibration	Section 8.0, Random Excitation: B and B' Sinusoidal Excitation: MNP
Explosive Proofness	Section 9.0, Category X
Fungus	Section 13.0, Category F
Magnetic Effect	Section 15.0, Category Z
Power Input	Section 16.0, Category A DC Power source, Category E for AC power source
Voltage Spike	Section 17.0, Category A
AF Conducted Susceptibility - Power Inputs	Section 18.0, Category B
Induced Signal Susceptibility	Section 19.0, Category Z
RF Susceptibility (Conducted and Radiated)	Radiated: Section 20.5, Category R Conducted: Section 20.4, Category R
Emission of RF Energy	Radiated: Section 21.4, Category Z Conducted: Section 21.3, Category Z
Lightning Induced Transient Susceptibility	Section 22.0, Category A3XX
Fluids Susceptibility	Section 11.0, Category X
Operational Shock	Section 7.2.2, Category X
Crash Safety Impulse Shock	Section 7.3.1, Category X
Water Proofness	Section 16.0, Category X
Sand and Dust	Section 12.0, Category X
Salt Spray	Section 14.0, Category X
Lightening Direct Effects	Section 23.0, Category X
Icing	Section 24.0, Category X

