AstroNova®
Aerospace

ToughWriter® 5

Designed for Business and Regional Jets

The compact design and low weight make the **ToughWriter® 5** optimally suited for installation in the flight deck of business and regional jets. Its design maximizes airflow for adjacent products and allows installation in the flight deck pedestal or console.

- World's Smallest and Lightest ARINC 744A Flight Deck Printer
- Print from Wireless Devices, such as Electronic Flight Bags and Tablets
- High MTBF (Mean Time Between Failures) Rated to 15,000 Hours
- High Resolution Printing at 300 x 600 DPI for Text and Graphics
- Simple, One Step Paper Loading
- Optional Built-In Wi-Fi
- 24/7 Customer Service Support

Printer supplier for Gulfstream, Bombardier, ATR and Dassault aircraft

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CHARACTERISTIC	SPECIFICATION
PRINTING	
Print Method	Direct thermal
Print Resolution	300 x 300 dots per inch (standard mode) 300 x 600 dots per inch (high quality mode)
Page Descriptor Language	Postscript® Level 3
Fonts	35 Postscript® fonts standard
PRINT SPEED	
Text	10 seconds per page
Graphics	11 seconds per page, typical
PHYSICAL	
Weight (with paper)	8.4 pounds
Dimensions	9.75" W x 5.75" H x 6.385" D
ELECTRICAL	
Input Voltage	28 VDC or 115VAC, 360 to 800Hz
Idle Power	15 watts
Maximum Power	150 watts (70 watts typical)
ENVIRONMENTAL/MECHANICAL	
Temperature (storage)	-55°C to +85°C
Temperature (operating)	-15°C to +55°C fully operational (Printing) -40°C to +71°C partially operational (Not printing)
Humidity	DO-160E, Section 6, Category A
Shock and Crash Safety	DO-160E, Section 7, Category B
Operational Vibration	DO-160E, Section 8, Category SB
Explosion Proofness	DO-160E, Section 9, Category E ENV II
Fluid Susceptibility	DO-160E, Section 11, Category F (spray test)
Fungus Resistance	DO-160E, Section 13, Category F
Magnetic Effect	DO-160E, Section 15 , Category A
Power Supply Audio Frequency Conducted Susceptibility	DO-160E, Section 18, Category Z
Induced Signal Susceptibility	DO-160E, Section 19, Category ZC
Radio Frequency Susceptibility (Radiated and Conducted)	DO-160E, Section 20, Category RR
RF Conducted Emissions (150kHz - 6GHz)	DO -160E, Section 21, Category M
ESD	DO-160E, Section 25, Category A

CHARACTERISTIC	SPECIFICATION
LIGHTING	
Dimming Control	5 PWM (pulse width modulation), 5 VDC (variable), 5 VDC (variable)
FRONT PANEL SWITCHES	
Front Panel Indicators/Controls	Power/Fault
	Test/Abort
	Slew/Paper
RELIABILITY	
MTBF	>15,000 hours
MTIR	Under 30 minutes
INTERFACE OPTIONS	
ARINC 429	4 Receive, 1 Transmit
Ethernet	Up to 4 10/100BaseT ports available
	10Base2 (optional)
	TCP/IP
	Built-in-test reporting (BIT) via SNMP V1
WiFi	Optional IEEEB02.11b/g/n compliant port

CONNECTORS

The printer can be configured with connector choices to meet requirements. Consult factory for more information. Following are common connector configurations:

MIL-OTL-38999 type:	
Power Connector	TVS07RF-13-4P (Amphenol P/N)
	D38999/24FC4P (MIL SPEC P/N)
ARINC 429/DISCRETES	TVS07RF-15-35P (Amphenol P/N)
	038999/24FD35P (MIL SPEC P/N)
ETHERNET	TVS07RF-13-35P (Amphenol P/N)
	D38999/24FC35P (MIL SPEC P/N)
Single data and power connector:	PT07SE24-61 P-023 (61P)
	PT07SE24-61 PW-023 (61P- W rotation)
PAPER	
Paper Roll	Supports both A4 and letter sizes (perforated and non-perforated rolls available)
Roll Length	150 feet

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