

AIRBORNE PRINTER



ToughWriter[®] 5

**Designed for Commercial
Transport Aircraft**



With its robust design and high Mean Time Between Failure, the **ToughWriter[®] 5** is designed to meet the high dispatch reliability required by aircraft operators. Its high dependability and low weight reduce operating costs, while innovations such as Ethernet and AirPrint certification allow direct connection to Electronic Flight Bags and tablet devices.

- 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
- Reduces Operating Costs
- 24/7 Customer Service Support
- Optional Built-In Wi-Fi

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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	160 lines/minute
Graphics	18 seconds per page typical, 26 seconds per page maximum.
PHYSICAL	
Weight (with paper)	8.9 pounds
Dimensions	9.75" W x 5.7" H x 7.89" D
ELECTRICAL	
Input Voltage	28 VDC or 115VAC, 360 to 800Hz
Idle Power	15 watts
Maximum Power	110 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 +70°C partially operational (Not printing)
Humidity	DO-160F, Section 6, Category A
Shock and Crash Safety	DO-160F, 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 VAC (variable), 5 VDC (variable)
FRONT PANEL SWITCHES	
Front Panel Indicators/Controls	Power/Fault Test/Abort Slew/Paper
RELIABILITY	
MTBF	>15,000 hours
MTTR	Under 30 minutes
INTERFACE OPTIONS	
ARINC 429	Up to 12 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 IEEE802.11b/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-DTL-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) D38999/24FD35P (MIL SPEC P/N)
Ethernet	TVS07RF-13-35P (Amphenol P/N) D38999/24FC35P (MIL SPEC P/N)
Single Data and Power Connector:	PT07SE24-61P-023 (61P) PT07SE24-61PW-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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