

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 optional Wi-Fi* 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***

*Note: Additional product certification required.

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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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