

## AIRBORNE PRINTER

# ToughWriter® 5

Designed for In-Flight  
Entertainment



The **ToughWriter® 5** is the ideal addition to any in-flight entertainment system, a simple solution to print receipts, passenger manifests and connecting gate information in-flight. Its high print speed provides maintenance personnel with fast access to critical information, which optimizes aircraft turnaround time.

- Fast, High Resolution Printing of Passenger Lists, Gate Information, Maintenance Requests and Boarding Passes
- Highest Print Quality Available in an IFE Printer (300 x 600 DPI for Text and Graphics)
- Simple, One Step Paper Loading
- Optional Built-In Wi-Fi Print from Wireless Devices, such as Electronic Flight Bags and Tablets
- High MTBF (Mean Time Between Failures) Rated to 15,000 Hours
- Reduces Operation Costs
- 24/7 Customer Service Support

## ToughWriter® 5 Designed for In-Flight Entertainment

CHARACTERISTIC	SPECIFICATION
<b>PRINTING</b>	
Print Method	Direct thermal
Print Resolution	300 x 300 dots per inch (standard mode) 300 x 600 dots per inch (high quality model)
Page Descriptor Language	PostScript® Level 3
Fonts	35 PostScript® fonts standard
<b>PRINT SPEED</b>	
Text	Up to 18 seconds per page
Graphics	26 seconds per page, typical
<b>PHYSICAL</b>	
Weight (with paper)	8.9 pounds
Dimensions	10.75" W x 5.00" H x 7.875" D
<b>ELECTRICAL</b>	
Input Voltage	28 VDC or 115VAC, 360 to 800Hz
Idle Power	15 watts
Maximum Power	110 watts (70 watts typical)
<b>ENVIRONMENTAL/MECHANICAL</b>	
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 8
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
<b>LIGHTING</b>	
Dimming Control	5 PWM (pulse width modulation), 5 VAC (variable), 5 VDC (variable)
<b>FRONT PANEL SWITCHES</b>	
Front Panel Indicators/Controls	Power/Fault Test/Abort Slew/Paper
<b>RELIABILITY</b>	
MTBF	>15,000 hours
MTIR	Under 30 minutes
<b>INTERFACE OPTIONS</b>	
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 IEEE802.11b/g/n compliant port
<b>CONNECTORS</b>	
The printer can be configured with connector choices to meet requirements. Consult factory for more information. Following are common connector configurations:	
<b>MIL-DTL-38999 type:</b>	
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) 038999/24FC35P (MIL SPEC P/N)
<b>Single data and power connector:</b>	PTD7SE24-61P-023 (61P) PT07SE24-61PW-023 (61P- W rotation)
<b>PAPER</b>	
Paper Roll	Supports both A4 and letter sizes (perforated and non-perforated rolls available)
Roll Length	150 feet



aerospace.astronovainc.com

### World Headquarters

600 East Greenwich Avenue  
West Warwick, Rhode Island 02893 U.S.A.  
+1 401-828-4000  
Toll-Free U.S.A.: 877-867-9783  
aerospace@astronovainc.com

### Branch Offices

**CANADA:** +1 450-619-9973  
Toll-Free Phone Canada only: 800-565-2216  
**UNITED KINGDOM:** +44 1628 668836  
**FRANCE:** +33 1 34 82 09 00  
**GERMANY:** +49 (0) 6074-31025-00