

# TP4429 PRINTER



## KEY BENEFITS:

Minimum consumables, lowest printer operating cost

Employs proven aviation printer technology

Paper tested to 95% humidity and temperature extremes of -15 to 71°C

Paper tested and certified to comply with ASTM (American Society of Testing & Materials) and TAPPI (Technical Association of the Pulp & Paper Industry) standards for reliable operation with printer

Paper print will not smudge and adjacent forms will not stick together

Paper resists degradation when exposed to solvents such as water, gasoline, oil and grease.

Paper print legible after long exposure to direct sunlight

Certified on large population of air transport and business jets

Quiet printer operation will not distract crew

The most compact printer available for installation on flight-deck, in bulkhead, partition, video control center or purser station.

Miltope's TP-4429 thermal printer is the most compact printer available for reliable operation in congested cockpits. In normal operation, 10 characters per inch are printed in 40 columns at a rate of 160 lines per minute. High resolution characters are printed using a 16 x 20 pixel print head, generating a hard copy on 4.25" paper. A paper cutting edge facilitates paper tear off at the end of print job. The front panel indicators provide visible viewing under all cockpit lighting conditions.

## Low Maintenance Modular Design

Use of modular components allows individual bench-testing of components to facilitate turnaround time during repair. Reliability is optimized utilizing a solid-state, multiple function print head that has no moving parts. Extensive built-in test capabilities allow error detection during operation and can be used for depot level maintenance.



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# TP4429 PRINTER



**A** 497126-3X Printer



**B** 497126-5X Printer

## KEY DESIGN FEATURES:

ARINC 740 compliant design

Easy one handed paper loading

FANS (Future Air Navigation Systems) compatible

0-5 Vac variable power control panel back lighting

Discretes for external alerts and control

Multiple colors available

Reliable operation, MTBF = 10,000 hrs for **A** 15,000 hrs for **B**

DZUS type front panel mounting fasteners per ARINC 306

## CONFIGURATIONS:

Part No.	ARINC 429	FANS Compatible	Color
<b>A</b> 497126-3X Printers:			
497126-31	12 channels	yes	gray
497126-32	12 channels	yes	brown
497126-33	12 channels	yes	black
<b>B</b> 497126-5X Printers:			
497126-51	12 channels	yes	gray
497126-52	12 channels	yes	brown
497126-53	12 channels	yes	black

## TECHNICAL SUMMARY:

	Capabilities
Performance:	Print Resolution : 150 dpi laser quality
	Print Speed : 160 lines/minute
	Character Set : 64 character ASCII
ARINC 429 Operation:	Channels: 1-10 operate at 12.5 kHz Channels: 11 & 12 operate at 12.5 -100 kHz programmable
Character Format	: 10 CPI / 40 columns 17 CPI / 66 columns 12 CPI / 80 columns
Character Font	: 16 (H) x 20 (V) dot matrix
Buffer Hold	: 3 minutes
Paper	: 4.25"W, 75 feet / roll (713805-15)
Power:	Power Input : <b>A</b> 115 Vac 400 Hz <b>B</b> 115 Vac, 360-800 Hz
	Power Consumption : Idle Mode: 22 Watts Print Mode: 40 nominal
Physical:	Dimensions : ARINC 740 compliant, 5.75"W x 6"H x 7.5"D (14,6 cm x 15,24 cm x 19,1 cm)
	Weight : <b>A</b> 9.5 lbs. (4,3 kg) with paper <b>B</b> 7.9 lbs. (3,4 kg) with paper
Cooling	: None required, convective
Mating Connector	: Part No. MS3126F20-41S (mil round)
Front Panel Controls	: Paper Advance, Test, Alert Reset
Front Panel Indicators:	Power On, Printer Busy/Job Complete
Thermal	: DO160E, Category A1
Vibration	: DO160E, Category R, curve B/B1
Radiated RF Emissions	: DO160E, Category M

Key Qualification Performance for **B**: