

Avionics

T-1401 TACAN Accessory Unit

AEROFLEX
A passion for performance.



The T-1401 provides a user friendly test solution for TACAN receiver/transmitters

- NATO_codified
- Easy to operate
- IEEE-488 GPIB via ATC-1400A
- Complete air-to-air, ground-to-air and inverse MODES of operation
- Two-year limited warranty

Aeroflex is a leader in the design, manufacture and marketing of Avionics test systems.

The T-1401 TACAN accessory unit interfaces with the ATC-1400A Transponder/DME Test Set to form the TACAN Test System. The TACAN Test System simulates a TACAN transmitter for testing TACAN receivers and transmitters. The TACAN Test System can be operated manually using external controls or remotely by ATE control through the GPIB bus.

Operation

The T-1401 provides a full range of TACAN bearing and DME simulation required to test and service air-to-air and ground-to-air airborne equipment in both normal and inverse modes. The control settings on the T-1401 front panel determine the mode of operation. In the absence of an ATC-1400A, the T-1401 operates with X Mode pulse spacing. Selecting Ground-to-Air (G/A) Mode enables the Identification and Equalizer pulse pairs. The ATC-1400A also sends mode information when connected to the T-1401 through the Aeroflex Bus. ATC-1400A mode information includes Identification On/Off, Equalizer On/Off, X/Y Mode and P1 and P2 pulse spacing.

Interconnect

The T-1401 may be hard mounted to the ATC-1400A using supplied hardware. Electrical interface to the ATC-1400A is via the Aeroflex and AUX buses using two 25 way interconnect cables and 2 SMB-to-SMB coaxial cables. Line power is switched through the T-1401 for synchronized power up of both test sets.

Features

- Programmable air-to-air interrogation rate
- Variable 15 Hz modulation
- Variable 135 Hz modulation
- Phase shift selection between 15 and -135 Hz
- Simulated bearing selection and display
- Programmable bearing/rate selection
- Identifies air-to-air replies from UUT

SPECIFICATION

Calibration Interval

1 year

AC Supply

100 to 120 VAC, 220 to 240 VAC, 50 Hz to 60 Hz, $\leq +10\%$ of the nominal voltage

43 W maximum (163 W maximum with ATC-1400A)

AC Output

Line output, fused at 3 A and switched

Environmental

Temperature

5° to 40°C

Relative Humidity

$\leq 0\%$ for temperatures upto 31°C, decreasing linearly to 50% at 40°C

Altitude

≤ 4000 m (13,124 ft)

Electromagnetic Compatibility

Complies with the limits in the following standards:

EN 55011 Class B

EN50082-1

Safety

Complies with EN 61010-1:1993 for class 1 portable equipment and is for use in a pollution degree 2 environment. The instrument is designed to operate from an installation category 1 or 2 supply.

Dimensions

425 mm wide, 467 mm deep, 89 mm high

16.8 in. wide, 18.4 in. deep, 3.5 in. high

Weight

8.1 kg (18 lbs.)

VERSIONS AND ACCESSORIES

When ordering please quote the full ordering number information.

Ordering Numbers

1401-110

1401-220

Versions

T-1401 TACAN Bearing and DME Simulation, 110 VAC operation

T-1401 TACAN Bearing and DME Simulation, 220 VAC operation

Accessories (Supplied)

Line Cord

AUX Bus Interface Cable

Aeroflex Bus Interface Cable

Operation Manual

1 x RF Coaxial Interface Cable

Line Cord from ATC-1400A to T-1401

All Aeroflex Avionics products delivered with Factory Certificate Of Calibration

EXPORT CONTROL:

This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.

EXPORT WARNING:

Aeroflex's military products are controlled for export under the International Traffic in Arms Regulations (ITAR) and may not be sold or proposed or offered for sale to certain countries including: Belarus, Burma, China, Cuba, Haiti, Iran, Liberia, Libya, North Korea, Somalia, Syria, Sudan, and Vietnam. See ITAR 126.1 for complete information.



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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.

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