

T-RX™

Avionics Radio & Pulse Tester

T-RX Equivalency Document

SXG-007

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INTRODUCTION:

T-RX™ is a rugged portable tablet with a large color sunlight-readable touch-screen display, with an extended life battery, and it has both an internal and external antenna, that allows aircraft maintainers to quickly and easily test a wide range of avionics systems.

The IFR 4000 unit designed for testing ILS, VOR, Marker Beacon and HF/VHF/UHF communications avionics systems.

The IFR 6000 unit designed for testing transponder modes A/C/S, 1090 MHz ADS-B and 978 MHz UAT, TCAS I and II, and DME.

This document compares all key attributes and test functions of the T-RX to the IFR-4000, IFR-6000 and clearly shows the T-RX to be an equivalent Avionics Tester to the IFR-4000 and IFR-6000.

Table: 1.1 Comparing Radio Specification (RF SPEC) of the T-RX to the IFR-4000, IFR-6000.

RF SPEC	T-RX	IFR-4000	Equivalency
HF COM	5 to 22 MHz AM/SSB	10 to 30 MHz AM/SSB	✓ Aeronautical HF band is 2.8 - 22 MHz
VHF COM	118.000 - 136.995 MHz 8.33 kHz spacing.	118.000 - 156.000 MHz 8.33 kHz spacing.	✓
Marker Beacon	75 MHz, AM Outer/Middle/Inner Marker Modulation Accuracy: ± 1%	75 MHz, AM Outer/Middle/Inner Marker Modulation Accuracy: ± 5%	✓
VOR	108.00 - 117.95 MHz AM Modulation Accuracy ± 1% modulation, FM Modulation Accuracy ± 25 Hz peak deviation.	108.00 - 117.95 MHz AM Modulation Accuracy ± 1% modulation, FM Modulation Accuracy ± 25 Hz peak deviation.	✓
Localizer	108.10 - 111.95 MHz Accuracy: ± 0.0015 DDM	108.10 - 111.95 MHz Accuracy: ± 0.0015 DDM	✓
Glideslope	329.15 - 335.00 MHz Accuracy: ± 0.003 DDM	329.15 - 335.00 MHz Accuracy: ± 0.003 DDM	✓
Frequency Stability	± 1 ppm	± 1 ppm	✓

RF SPEC	T-RX	IFR-6000	Equivalency
ATCRBS/ Mode-S	<p>MTL accuracy ± 2 dB Power accuracy: ± 2 dB</p> <p>All parameters tested required by FAR 43 App.F, CAR 571 App. F and (EU) 1207/2011.</p>	<p>MTL accuracy ± 2 dB Power accuracy: ± 2 dB</p> <p>All parameters tested required by FAR 43 App.F, CAR 571 App. F and (EU) 1207/2011.</p>	✓
ADS-B OUT 1090	<p>Meets all testing requirements of FAR 91.225/227 and EASA AMC 20-24.</p>	<p>Meets all testing requirements of FAR 91.225/227 and EASA AMC 20-24.</p>	✓
ADS-B OUT 978/UAT	<p>Meets all testing requirements of FAR 91.225/227.</p>	<p>Meets all testing requirements of FAR 91.225/227.</p>	✓
Frequency Stability	± 1 ppm	± 1 ppm	✓

Table: 1.2 Hardware Specifications

T-RX	IFR 4000	IFR 6000
Weight 5.07 lbs (2.3 kg)	Weight 8 lbs. (3.6 kg), test set only	Weight 8 lbs. (3.6 kg), test set only
Battery Type Li-ion smart battery, 10+ Hours	Battery Type Li-ion >8 hrs continuous operation	Battery Type Li-ion >4 hrs continuous operation
Display 10.4" Color Touchscreen	Display 5.7" monochrome	Display 5.7" monochrome

Contact Us

Should you need any further assistance please feel free to reach out to us either by email, phone or any of our social media platforms.

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