

Stand Alone/Rugged Construction C-Band Radar Transponder Test Box



Features

- Portable operation/rugged construction for field use
- Stand alone operation (internal battery and antenna included)
- Operates on 120 VAC/12 VDC/internal battery (~8 hours)
- Stores up to 50 sets of response data in non-volatile memory
- Programmable transmit and receiver frequencies cover entire C-Band (5.4 to 5.9 GHz)
- Programmable pulse code spacing (2.5 to 15 microseconds)
- Programmable interrogation rate (10 to 2600 PPS)
- Provides real time display of Pulse Repetition Frequency (PRF), reply delay, signal strength, and battery life
- Interface port allows remote RS-232 operation
- Multiple RF power modes (full, reduced, and off)
- Video output pulse displayed on portable oscilloscope
- Rack mount version available (consult factory)

Description

The XFT-100 is a self powered tester for C-Band radar transponders. The unit is intended for both bench testing and field testing. The transponder inside the unit transmits a coded pulse interrogation and receives a pulse reply at a different frequency in the same band. The unit provides real-time display of Pulse Repetition Frequency (PRF), reply pulse delay, signal strength and other information.

The XFT-100 provides a serial interface to allow for remote control and to download stored measurement data for 50 captures for post test logging. For safety reasons, the XFT-100 provides reduced RF output power settings selectable prior to enabling the transmitter. This reduces the RF exposure of the operator during programming and operation.

Applications

- Field and bench testing of C-Band radar transponders

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XFT-100 Datasheet

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