

MODEL 41 C-BAND TEST SET

DATA SHEET & TECHNICAL SPECIFICATIONS



Features

- ▶ Full Bench top testing or quick Go/No-Go testing options
- ▶ Automated and Manual Tests
- ▶ Radiate and Direct connect operation
- ▶ Interface
- ▶ Rugged and Portable design
- ▶ Easy to use and highly configurable to support multiple testing
- ▶ Stores all test data for future analysis and comparison
- ▶ Removable Hard Drive

The Model 41 test set is a stand-alone unit that performs automated and manual bench and go-no/go tests on compatible 5, 20, 50, and 400-Watt C-band Transponders. It is available in a rugged shock-mounted transit case for field use and can also be removed from the case and installed in an E.I.A. standard 19" equipment rack for lab or flight line use.

The Model 41 performs a full suite of transponder tests ideal for preflight equipment validation and verification. It can be configured for a variety of frequency and pulse parameters to verify Receiver Frequency, Receiver Sensitivity, Double Pulse Code Spacing, Transmitter Frequency, Transmitter Pulse Width, Transmitter Output

Power, and Relay Delay. The test set has an easy to use Windows 7 based software application with all parameters and test panels controlled via touch screen monitor. All test results are stored in a user defined directory and can be viewed either on the test set or copied to an external device via the front panel USB interface.

The Model 41 can be operated in either Direct Mode with a supplied RF cable connecting the transponder directly to the test set or in Radiate Mode with a supplied antenna to transmit and receive signal to and from the transponder. It can support radiated Radiate Mode tests at distances up to 50 feet.

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Receiver

- ▶ Frequency: 5.4 GHz to 5.9 GHz
- ▶ Frequency Adjustment: 1.0 MHz steps
- ▶ RF Bandwidth: 5.35 GHz to 5.95 GHz
- ▶ Measurement Accuracy: +/- 2 MHz

Environmental

- ▶ Temperature, Operating: -20°C to +65°C
- ▶ Temperature, Storage: -40°C to +70°C

Power Requirements

- ▶ Input Voltage: 115 +/- 5 VAC, 60 Hz Single Phase

Functional Tests

- ▶ Receiver Sensitivity
- ▶ Receiver Frequency
- ▶ Double Pulse Code Spacing
- ▶ Transmitter Frequency
- ▶ Transmitter Pulse Width
- ▶ Transmitter Output Power
- ▶ Reply Delay

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