



CTS-6000 Series Radio Test Set

Nine Test Instruments in One Single, Portable Tester

Modern Testing for Your Communications

Bring your radio test function into the modern age with the new CTS-6000 Series radio test set. Combining nine instruments into one, this tester offers fault detection and operational verification of your radio communications system whether in the factory, at the depot, or deployed in the field.

The new CTS-6000 is ideal for use by:

- Any military branch
- TSA
- Airlines and transportation companies
- Law enforcement
- Search and rescue
- Private security

...and other organizations requiring secure, reliable radio communications.

This is the newest radio test set to join the Astronics Test Systems' lineup of radio test solutions, which have been successfully deployed worldwide for more than 20 years.



A Complete Test System

Test tactical handsets, amplifiers, couplers, cabling, antennae, or any other component of your radio communications test system.

Test Instruments Included:

- RF signal generator
- RF receiver
- RF power meter
- RF analyzers – spectrum, VSWR, cable distance-to-fault
- AF signal generator
- Audio meters – SINAD/distortion, frequency, audio filters
- Oscilloscope
- Digital interfaces
- Reference oscillator
- Tracking generator

Available Services:

- Engineer-to-engineer collaboration and customization
- Program management
- Installation
- Calibration
- Maintenance and ongoing support

KEY BENEFITS

- **Powerful** - nine instruments in one
- **Reliable** - fewer frustrating "no fault founds"
- **Flexible** - modular, customizable architecture makes it future-proof
- **Intuitive** - Windows-based interface
- **Portable** - Small size and light weight
- **Lower cost** - reduced maintenance, calibration, and lifecycle ownership costs
- **Secure** - cybersecure software
- **Supportable** - dedicated engineering, factory and field support staff



Ready for Rugged Duty. Designed for operational-level testing, this handheld tester is ruggedized with a 10.1" sunlight-readable display. Over-the-air testing also enables you to verify equipment operation remotely. Operation includes standalone and automated modes.

Future Supportable. The CTS-6000 Series offers a synthetic instrument architecture to provide a migration path for easy customization, upgrades, and alignment with future radio communications technologies.

Additionally, Astronics' long history of field support and obsolescence management ensure long term success and maximum utilization of your radio test set investment.

Expert Customization Available.

Units are available as-is or can be easily customized to suit your exact needs. Experience our famous "engineer to engineer" approach for success in creating the perfect radio test solution.

Available in Multiple Versions.

The CTS-6000 is available as a standard off-the-shelf product or in a version customizable by OEMs.

Global Installation and Support.

Rely on Astronics' global teams for installation, calibration, training, field support, and maintenance.

Get Started Today.

For additional details, please contact Astronics Test Systems.

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Maximize your uptime and keep your front lines safer with radio communications test sets from Astronics Test Systems.

CTS-6000 SERIES SPECIFICATIONS

RF SIGNAL GENERATOR

- Frequency:
- Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1 Hz
 - T/R output range: -120 dBm to -50 dBm
 - ANT output range: -90 dBm to -30 dBm

RF RECEIVE METERS

- Frequency:
- Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1Hz
 - T/R input range: -50 dBm to +37 dBm (50 Ω)
 - ANT input range: -120 dBm to +20 dBm (50 Ω)
 - RSSI range: -100 dBm to +43 dBm

RF POWER METER

- Frequency:
- Range: 1.0 MHz to 6.0 GHz
 - Accuracy: +/-10%

AUDIO FUNCTION GENERATOR

- Waveform:
- Sine, square, triangle, ramp up, ramp down, & DC
- Frequency:
- Range: Sine: 0 Hz to 40 kHz
 - Resolution: 0.1 Hz
 - Accuracy: 100 ppm

DIMENSIONS

- Size: 11.8" x 10" x 3.3" (300 mm x 255 mm x 85 mm)
- Weight: <10.6 lbs. (4.8 kg)

ACCESSORIES

AC power cord, carry handle, operator's manual, 2 batteries

RF SPECTRUM ANALYZER

- Frequency:
- Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1 Hz

OSCILLOSCOPE

- Display:
- Channels: 2
 - Trace types: Live, captured
 - Measure: frequency, Vrms, Vmin, Vmax, Vpp, Vavg, pulse width (neg. & pos.)
 - Frequency range: DC to 25 MHz
 - Input range: +/-40 V

REFERENCE OSCILLATOR

- Accuracy: +/- 0.15 ppm

AUDIO ANALYZER

- Channels:
- 2 Channels
 - Demodulated RF
 - Audio signal is automatically detected and measured

POWER REQUIREMENTS

- AC/DC
- AC voltage: 95 to 260 VAC, 50/60 Hz
 - DC voltage: using battery

HOST SYSTEM

- Rugged tablet running Windows 7
- Solid state drive with 128 GB