

Wireless

3500 Portable Radio Communications Test Set



Designed to dramatically improve operational time in vehicle installations and reduce the number of incorrectly diagnosed radios that result in NTF (Not Troubleshootable).

- 2 MHz - 1 GHz operation
- Portable and rugged
- AM/FM transmitter and receiver tests
- Spectrum Analyzer with -136 dBm noise floor
- Antenna/Cable tests
- Isolate radio and installation failures

Portable and Rugged

- Easy portability - weighs only 8.5 lbs. (3.9 kg)
- Rugged construction - solid aluminum weatherproof case
- -20° to +50° C operating temperature range
- 5 hour battery life

Aeroflex engineers designed the 3500 from the ground up to be portable and rugged, weighing in at only 8.5 lbs (3.9 kg) including the battery. It has a solid aluminum weatherproof case, an operating temperature range of -20° to +50°C, and rugged construction specifications (Mil-PRF-28800A) for humidity, altitude, shock, and vibration. The battery gives the user 5 hours of operation and can be fully re-charged and ready to operate in only 4 hours. In addition, the 3500 and the optional accessories can be stored in a ruggedized transport case.

The AeroFlex 3500 is the *First Truly Rugged, Portable Radio Test Set*. With the latest in portability, battery life and performance, the AeroFlex 3500 builds upon AeroFlex's expertise in developing portable radio communications test sets with exclusive features and affordability that are destined to set a new standard in portable radio test sets. The 3500 is capable of measuring high power (20 W without an external attenuator, up to 150 W with an external attenuator option), as well as finding faults in antennas, power amplifiers and interconnects. Designed to meet the needs of a multitude of radio tests, the 3500 provides fast, reliable measurements of the radio's transmitter and receiver parameters. With the additional capability to perform quick testing of antennas and cables, the 3500 provides the most complete portable test solution available to quickly isolate problems and assess performance of the radio, cable and antenna systems. With extensive operational capability, the 3500 provides portable test features that you typically find in bench top radio test equipment.

Radio Installation Failures

- Handset and antenna allow over the air "Talk Test"
- RSSI Meter
- RF Error Meter
- Modulation Measurements
- Audio Frequency Counter
- Spectrum Analyzer

Designed to be used for quick installed radio testing (DriveBy Testing), the 3500 can efficiently and easily find radio failures. There is no need to connect to the radio under test, simply connect the supplied antenna, key up the radio and then measure the radio parameters over-the-air. A handset is provided to check voice quality of the transmitter and receiver. A push-to-talk button on the handset controls whether the 3500 is transmitting or receiving. The "Drive by" test screen, shown below, is ideal for making quick transmitter and receiver measurements on an installed radio system.

DRIVEBY TEST		
Generator MHz: 50,000000 Port: ANT Mod: FM Lvl: -70 dBm	Receiver MHz: 50,000000 Port: ANT Mod: FM 25k AFBw: [C-Wt BP]	MOD-FMDEV 1.998 0 kHz 100
Modulator Gen 1: ON 1000,0 Hz 2,00 kHz DCS ON 026 0,60 kHz Ext Aud: OFF Load: High Z MIC: OFF	Freq/Code FM	RF-ERROR -0.014 -200 kHz 200
Bat: 53 Temp: 28 Vol: 10 Recall Save Aud Out Speaker	AF-COUNTER 999.9 15 Hz 20000	RSSI -70.92 -110 dBm 43
[Edit]	[Return]	[System] [Setup] [Ptt on]

Drive By Test Screen

RECEIVER TEST		
Generator MHz: 151,062500 Port: T/R Mod: FM Lvl: -115 dBm	SINAD-AUDIN 30.1 0 dB 60	DIST-AUDIN 1.3 0 % 100
Modulator Gen 1: ON 1000,0 Hz 6,25 kHz DCS ON 026 3,25 kHz Ext Aud: OFF Load: High Z MIC: OFF	Freq/Code FM	
Bat: 98 Temp: 34 Vol: 10 Recall Save Aud Out Speaker		
[Edit]	[Return]	[System] [Setup]

Receiver Test Screen

Bench Top Testing

- Spectrum Analyzer
- RF power
- RF frequency error
- AM modulation/FM deviation
- Audio frequency counter
- Receive Signal Strength Indicator (RSSI)
- DCS generator
- Distortion
- SINAD/Sensitivity

Also included in the operation of the 3500 is the capability to perform bench top type testing on a radio. All radio parameters including power, frequency error, modulation accuracy, receiver sensitivity and audio performance can be easily accessed and tested with the 3500. In the Bench Top Mode, the user has the ability to tailor the operation of the 3500 to the type of testing to be performed.

The Transmitter Test screen operates as a signal analyzer, measuring the parameters associated with the transmit portion of the radio being tested. Included in this screen are measurements of the modulation, the RF power, and RF frequency error.

TRANSMITTER TEST		
Receiver MHz: 151,625000 Port: T/R Mod: FM 25k AFBw: 0,3-5k BP	Function Generator Freq Level #1: ON 1000,0 Hz 0,20 Vrms #2: OFF 2400,0 Hz 0,20 Vrms	
DIST-AUDIN 1.87 0 % 100	RF-ERROR -0.108 -200 kHz 200	RF-POWER 3.91 0 Watts 20
Bat: 57 Temp: 30 Vol: 10 Recall [Save] Aud Out Speaker	AF-COUNTER 1000.0 15 Hz 20000	Cable Offset: -1,0 RF Amp: Auto
[Zoom]	[Return]	[System] [Setup]

Transmitter Test Screen

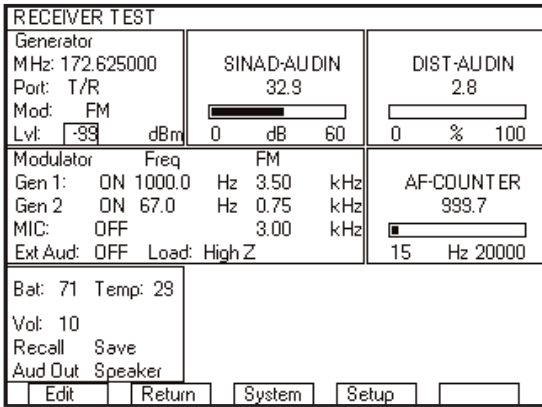
1 - RECEIVER TEST
2 - TRANSMITTER TEST
3 - DUPLEX TEST
4 - SWR TEST
5 - METERS
6 - AUDIO
7 - SETUP
[Return] [System]

Bench Top Menu Screen

If the ReceiverTest is selected, the 3500 operates as a signal generator, enabling the testing of the receiver portion of the radio. Audio SINAD, distortion, and frequency are among the tests that can be performed on the radio's receiver. With two internal generators that can be used as modulation sources, the 3500 can modulate the carrier with both a test tone and a squelch tone. In addition, the operation of Gen 2 can be changed to be DCS or DCS invert, enabling the testing of mobiles requiring a digitally coded squelch.

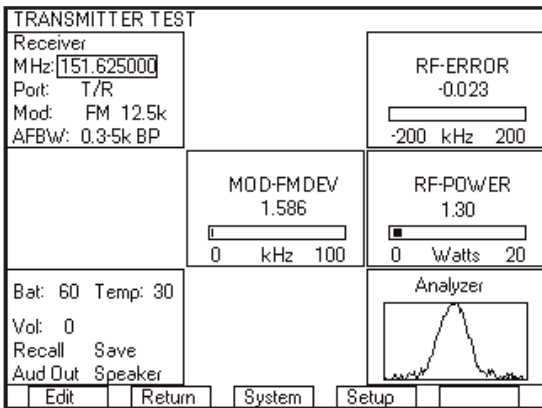
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The Analyzer can be accessed from the Transmitted Test screen as well as the Duplex Test screen.

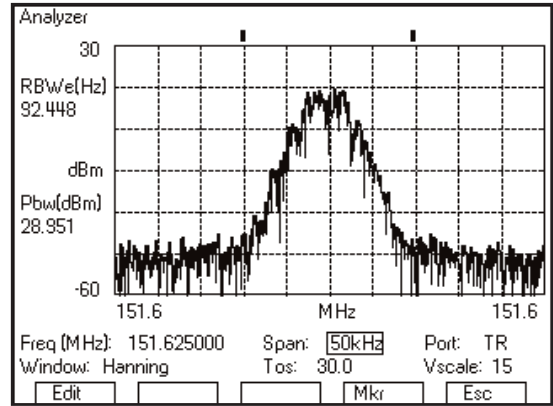


Receiver Test Screen

The Transmitter Test screen operates as a signal analyzer, measuring the parameters associated with the transmit portion of the radio being tested. Included in this screen are measurements of the modulation, the RF power, and RF frequency error.

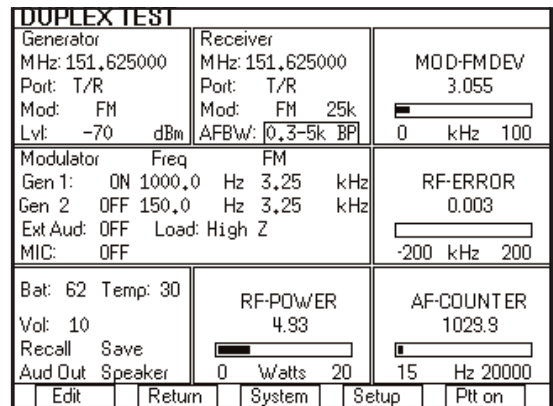


Transmitter Test Screen



Full Screen Spectrum Analyzer

The Duplex Test screen operates as both a signal generator and analyzer, allowing simultaneous testing of the transmitter and receiver of the radio being tested. All of the capability of the transmitter test screen and the receiver test screen are included in this screen.

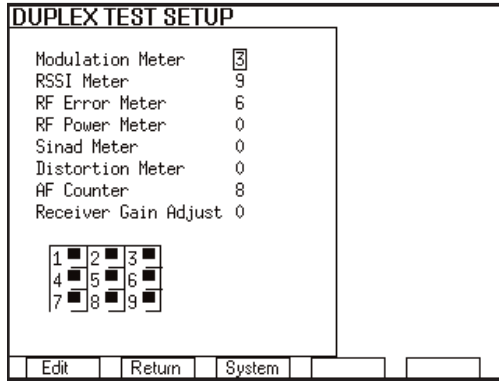


Duplex Test Screen

Any of the test screens can be easily configured with the meters that are needed according to the type of tests that the user wants to perform by selecting the meters from the setup screen. Users can quickly define the "look" of the instrument by configuring the way the meters are displayed on the screen.

New to the latest release of the 3500 is an FFT based spectrum analyzer. An FFT analyzer uses a snapshot of the incoming RF signal that is within the selected span and converts it to a frequency spectrum. The advantage of using this method is that the whole spectrum is converted from one set of data and not from a sweep where the RF signal may have changed from the start of the frequency sweep to the finish. The noise floor of the spectrum analyzer is < -136 dBm in the 10 kHz span.

The 3500 analyzer has a span width that ranges from 10 kHz to 5 MHz with an effective resolution bandwidth as narrow as 19 Hz. A marker function includes the capability of measuring the power within a particular bandwidth and at a specified offset from the center frequency.



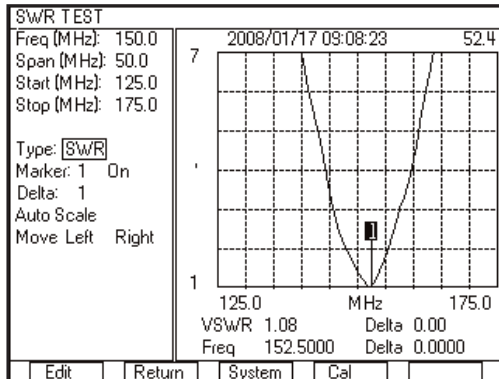
Duplex Test Setup Screen

Isolate Cable and Antenna Problems

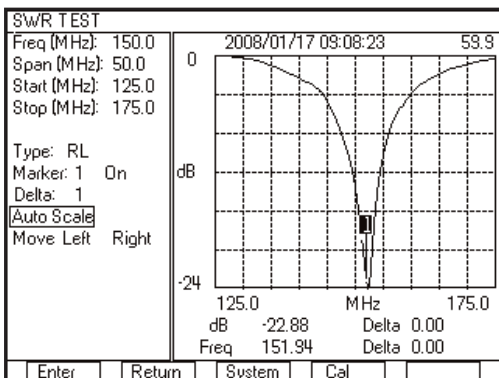
Since many radio faults lie in the cabling and/or antenna and not with the radio, the 3500 includes the capability to measure the VSWR or return loss of an antenna, and the loss or distance to fault of a cable. By isolating the problem to the cable, connector or antenna, you can avoid returning good radios to the depot or manufacturer for repair, thus avoiding radio system down time. The SWR Test screen provides the user with the option to display:

- VSWR versus frequency
- Return loss versus frequency
- Cable loss versus frequency
- Return loss versus feet

The display of VSWR or Return Loss (RL) versus frequency is useful for observing the characteristics of an antenna. The following two screenshots show examples of these two types of measurements.

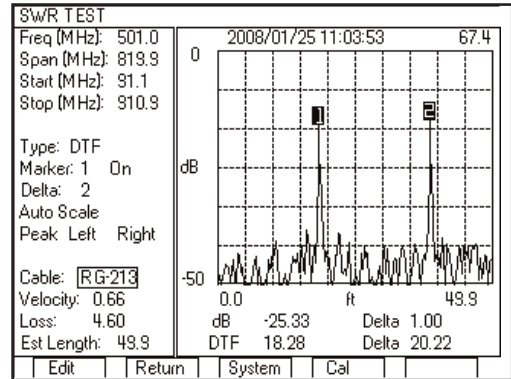


SWR Test Screen Showing VSWR Versus Frequency



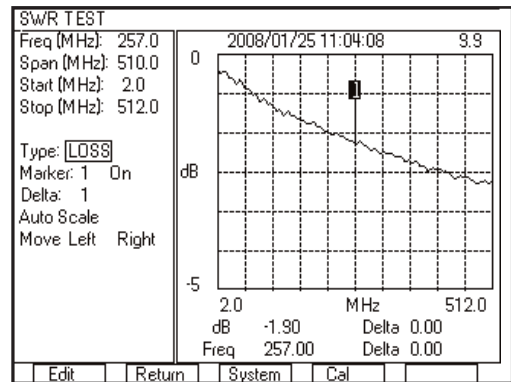
SWR Test Screen Showing RL Versus Frequency

The display of return loss versus feet is descriptive of the characteristics of a cable, illustrating to the user the precise location of faults (DTF). The following screenshot shows a cable that has a fault, with the location of marker 1 at the fault and marker 2 at the end of the cable.



SWR Test Screen Showing DTF

The cable loss feature enables the user to do a one port measurement of the loss of a cable over frequency. For example, the following screen shot shows the loss of a cable over the frequency range 2 MHz to 512 MHz.



SWR Test Screen Showing LOSS

Up to three markers can be enabled for use in analyzing the graphical data that is acquired on the SWR test screen. The markers provide the user with information on the precise return loss at a given distance for DTF mode or the exact VSWR at a given frequency for SWR mode. A delta function, associated with the markers, is also available in order to show the difference in VSWR and frequency, or return loss and feet, between two of the markers.

Save/Recall Features

The 3500 allows users to define pass/fail parameters and configure the test parameters and then save these files internally for future use. This feature allows fast testing on radios that require constant testing, base station verification and for testing a large number of the same radio.

Future Updates

The 3500 utilizes a software-defined radio architecture. The software defines almost all of the functionality of the test set from the RF physical layer and up. This software-defined feature allows for future updates and improvements to the capability of the instrument and allows the user to easily add options or update functional improvements in the field, without the need to return the instrument to the factory.

SSPPEECCIIFFIICCAATTIOONN

RRFF SSIIGGNAALL GGEENNEERRAATTOORR

FFRREEQQUUEENCCYY

Range

2 MHz to 1 GHz

Resolution

1 Hz

Accuracy

Same as timebase

OOUUTTPPUUTT LLEEVEELL

Range

T/R port: -50 to -120 dBm/707 μ V to .224 μ V

ANT port: -30 to -90 dBm/7071 μ V to 7.07 μ V

SWR port: -5 to -65 dBm/125743 μ V to 126 μ V

Resolution

1 dB/0.1 μ V

Accuracy

\pm 2 dB

SSB PHASE NOISE

-80 dBc/Hz at 20 kHz offset

SPURIOUS

Harmonics

-30 dBc

Non-Harmonics

-40 dBc (> \pm 20 kHz offset from carrier) in Band

RESIDUAL FM

<60 Hz in 300 Hz to 3 kHz BW

Typically <20 Hz

RESIDUAL AM

<5% in 300 Hz to 3 kHz BW

Typically <1%

PORT INPUT PROTECTION

ANT port: +20 dBm

SWR port: +20 dBm

T/R port: +44 dBm

PORT VSWR

ANT port: <1.5 : 1

SWR port: <1.5 : 1

T/R port: <1.25 : 1

MODULATION FREQUENCY (RATE) - AM AND FM

Range

0.0 Hz to 24.0 kHz

Resolution

0.1 Hz

Accuracy

Timebase \pm 2 Hz

FM DEVIATION (GEN 1 AND GEN 2)

Range

Off, 500 Hz to 50 kHz

Total Harmonic Distortion

3% (1 kHz rate, >2 kHz deviation, 300 Hz - 3 kHz BP filter)

Resolution

10 Hz

Accuracy

\pm 10% (2 kHz to 50 kHz deviation, 150 Hz to 5 kHz rate)

Typically <2% (5.6 kHz deviation, 1 kHz rate)

EXTERNAL FM

MIC IN

Level: 1 to 30 mVrms, voiced tone (whistle)

Frequency range: 400 Hz to 1.2 kHz

Slope: Positive voltage yields positive deviation

AUDIO IN

Switchable loads: 150 ohms, 600 ohms, High Z

Input levels: 0.05 to 3 Vrms

Frequency range: 300 Hz to 5 kHz

Level sensitivity: 1 kHz/35 mVrms

Slope: Positive voltage yields positive deviation

AM MODULATION (GEN 1 AND GEN 2)

Range

OFF, 0 to 100% (0Hz to 24 kHz)

Resolution

0.1%

Total Harmonic Distortion

3% (20% to 90% mod, 1 kHz rate, 300 Hz to 3 kHz BP filter)

Accuracy

10% of setting (150 Hz to 5 kHz rate, 10% to 90% Modulation)

EXTERNAL AM

MIC IN

Frequency Range: 400 Hz to 1.2 kHz

AUDIO IN

Switchable loads: 150 ohm, 600 ohms, High Z

Input levels: 0.05 to 3 Vrms

Frequency range: 300 Hz to 5 kHz

Level sensitivity: 1% / 35 mVrms nominal

GEN 1 AND GEN 2

FREQUENCY

Range

30 Hz to 5 kHz (spec)

0.0 Hz to 24.0 kHz (usable)

Resolution

0.1 Hz

Accuracy

Timebase \pm 2 Hz

OUTPUT LEVEL

Load Impedance

600 ohms

Range

0 to 1.57 Vrms

Resolution

0.01 Vrms

Accuracy

±10%

Distortion

<3% (1 kHz rate, sine, 300 Hz to 3 kHz)

HHAANNDDSSSEETT**Frequency Range**

300 Hz to 1.2 kHz

Input Level

0.03 Vrms to 8 Vrms

PTT Operation

PTT On/Off will change between TRANSMITTER TEST and RECEIVER TEST

PTT ON Low GND

PTT OFF Hi Open with Pull-up

RF RECEIVER**FREQUENCY****Range**

2 MHz to 1 GHz

Resolution

1 Hz

Accuracy

Same as timebase

INPUT AMPLITUDE**Minimum Input Level, Audio Sensitivity**

ANT: -80 dBm (22.4 µV), typical 10 dB SINAD (-110 dBm with pre-amp)

T/R: -40 dBm (2236 µV), typical, 10 dB SINAD

Useable Input Level Range

ANT: -60 dBm (-80 dBm with RF Amp On) to -10 dBm (RF Error, Distortion and Modulation)

ANT: -90 dBm (-110 dBm with RF Amp On) to -10 dBm (RSSI)

T/R: -20 dBm to maximum input level (RF error, distortion and modulation)

T/R: -50 dBm to maximum input level (RSSI)

Maximum Input Level

ANT: +20 dBm/0.1 W for 10 seconds

T/R: +43 dBm/20 W (FM) and +37 dBm (AM)

AM/FM DEMODULATION**IF Bandwidth**

FM: 5 kHz, 6.25 kHz, 8.33 kHz, 10 kHz, 12.5 kHz, 25 kHz, 30 kHz, 100 kHz, 300 kHz

AM: 5 kHz, 6.25 kHz, 8.33 kHz, 10 kHz, 12.5 kHz, 25 kHz, 30 kHz

Audio Filters Bandwidth

NONE, 15 k LP, 5 k LP, 0.3 k LP, 0.3-5 k BP, 0.3 k HP, C-Wt BP, CCITT BP

Audio Output Level Sensitivity

FM: (3 Vrms/kHz Dev)/IF BW (kHz) ± 15%

AM: 7 mVrms/% AM ±15%

Speaker Output

75 dBa min. at 0.5 m, 600 - 1800 Hz, max volume

VOLUME CONTROL**Range**

0 - 100

LO Emissions

>-50 dBc

Quieted Channels

10 frequencies allowed between 2 MHz and 999.999 MHz quieted by no more than 30 dB

RF TRANSMITTER METERS**RF FREQUENCY ERROR METER****Range**

±200 kHz

Resolution

1 Hz

Accuracy

Same as timebase ±2 Hz

RSSI INDICATOR (RF POWER WITHIN RECEIVER IF BANDWIDTH)**Display Range**

dBm: -120 dBm to +43 dBm (+53 dBm with Ext Attn dB set to 20 dB)

Watts: 10 pW to 20 W (200 W with Ext Attn dB set to 20 dB)

Useable Meter Reading RF Level Range

T/R port: -50 dBm to +43 dBm

ANT port (without RF amp on): -90 dBm to -10 dBm

ANT port (with RF amp on): -110 dBm to -10 dBm

Resolution

0.01 dBm

Accuracy

±3 dB (>-50 dBm into T/R, >-90 dBm into ANT or >-120 dBm into ANT with RF Amp On)

RF POWER METER (BROADBAND RF POWER INTO T/R PORT)**Display Range**

Ext Attenuation set to 0 dBm: 0 to 43 dBm (0 to 20 W)

Ext Attenuation set to 20 dBm: 0 to 53 dBm (0 to 200 W)

Minimum Input Level

0.10 W/+20 dBm

Maximum Input Level

No external attenuator:

20 W/43 dBm for 10 minutes at +25° C or until thermal alarm sounds

With external 50 W attenuator:

50 W/47 dBm average at +25° C

With external 150 W attenuator:

150 W/51.8 dBm average for temperatures up to +25° C, linearly derated to 125 W at 55° C

200 W/53 dBm peak for 30 seconds on / 5 minutes off at +25°C

Resolution

0.01 W/0.1 dBm

Accuracy

±1 dB for internal attenuator
±1.5 dB using external attenuator

FM DEVIATION METER

Range

500 Hz to ±100 kHz

Modes

Peak+, Peak-, (Peak+ - Peak-)/2

Resolution

1 Hz

Accuracy

±10% of reading
Typically <3% (1 kHz rate, 5 kHz deviation)

AM PERCENT METER

Range

5% to 100%

Modes

Peak+, Peak-, (Peak+ - Peak-)/2

Resolution

1%

Accuracy

±5% of reading, 1 kHz rate, 30% to 90% modulation, 3 kHz LPF

SWR/SWR METER

Frequency Range

2.0 MHz to 1000.0 MHz

Span Range

0.2 MHz to 998 MHz

Start Range

2.0 MHz to 999.8 MHz

Stop Range

2.2 MHz to 1000.0 MHz

Frequency Resolution

0.1 MHz

VSWR Range

1.00 to 7.00

VSWR Resolution

0.01

VSWR Accuracy

±10% of SWR readings (calibrated) <300 MHz
±20% of SWR readings (calibrated) =300 MHz

Return Loss Range

0.0 to -50.0 dB

DTF range

Base on frequency span

Min: 0 to 41 ft.

Max: limited by cable loss

AUDIO METER

AUDIO INPUT (EXT AUDIN)

Source

BNC Input on handset

Frequency Range

300 Hz to 10 kHz

Level Range

0 V to 5 Vp-p

SINAD METER (WITH 1 KHZ AUDIO)

Measurement Sources

Audio in, demod

Audio Frequency

1 kHz

Display Range

0 to 40 dB

Resolution

0.1 dB

Accuracy

±1.5 dB from 8 to 40 dB

DISTORTION METER

Measurement Sources

Audio in, demod

Audio Frequency

1 kHz

Reading Range

0% to 100%

Resolution

0.1%

Accuracy

±10% from 1% to 20%

TEMPERATURE METER

Temperature Stability

±0.25 ppm at 25 °C
±0.5 ppm over temp range

Aging

1 ppm/year standard

Warm-up time

3 min.

ENVIRONMENTAL SPECIFICATIONS

Overall Dimensions

231 mm x 285 mm x 70 mm (W x L x D)
9.1 in. x 11.2 in. x 2.8 in.

Weight

8.5 lbs. (3.9 kg); 12 lbs. (5.4 kg) with accessories and softbag

Temperature

Storage: -51°C to +71°C storage

Note: Battery must not be subjected to temperatures below -20° C, nor above +60° C

Operation: -20°C to +55°C

Note: Battery to be charged at temperatures between 0°C and +45°C

Humidity

95% max. (non-condensing) (MIL-PRF-28800F Class 2)

Altitude

4,600 m max. (15,092 ft.) (MIL-PRF-28800F Class 2)

Shock, Functional

30G (MIL-PRF-28800F Class 2)

Vibration

Random 10 - 500 Hz (MIL-PRF-28800F Class 2)

Bench Handling

MIL-PRF-288000F, Class 2

COMPLIANCE**ENVIRONMENTAL****Use**

Pollution degree 2

Mil-PRF-28800F class 2

Salt fog

Splash proof

Acoustic noise

Explosive atmosphere

Fungus resistance

Dust resistance

Drip proof

Solar radiation

EMC**Emissions**

Mil-PRF-28800F

EN61326: 1998 class A

EN61000-3-2

EN61000-3-3

Immunity

Mil-PRF-28800F

EN61326: 1998

EN61000-6-1

SAFETY**Standard**

UL 61010-1

Usage Environment

Indoor use, maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% RH at +40C, Installation Category II, Pollution degree 2

AC INPUT POWER (AC TO DC CONVERTER / CHARGER UNIT)**AC Input Voltage Range**

100 to 240 VAC, 1.5 A max., 47 Hz - 63 Hz

AC Input Voltage Fluctuation

Less than 10% of the nominal input voltage

Transient Overvoltage

According to Installation Category II

Usage Environment

Indoor use, maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% RH at +40C, Installation Category II, Pollution degree 2

Operating Temperature

0°C to +40 °C

Storage Temperature

-20°C to + 85 °C

EMI

EN55022 class B, EN61000-3-2 class D

Safety

UL 1950, CSA 22.2 No. 234 and No.950, IEC 950/EN 60950

DC INPUT POWER**DC Input Voltage Range (DC INPUT CONNECTOR)**

11 VDC to 32 VDC

DC Power Input, Max. (DC INPUT CONNECTOR)

55 W

DC Power Input, Nominal (DC INPUT CONNECTOR)

25 W

DC Fuse Requirement (DC INPUT CONNECTOR)

5A, 32VDC, Type F

BATTERY**Battery Type**

Lithium Ion (Li Ion) battery pack

Note: Battery must not be subjected to temperatures below -20C , nor above +60°C

Battery Operation Time

5 hours continuous use

No backlight, duty cycle 80% transmitter and 20% Receiver tests, Auto shutoff if key is not pressed for 10 minutes

7 hours typical use

Battery Charge Time

4 hours

Note: Battery to be charged at temperatures between +0C and +45 °C only

VERSIONS, OPTIONS AND ACCESSORIES

When ordering please quote the full ordering number information.

SUPPLIED ACCESSORIES

Soft-side carrying case
AC to DC charger with AC power cord
Audio/microphone handset
Audio/microphone handset cable
Short/1 GHz VSWR load TNC female
Breakout box
TNC-M to TNC-M cable
BNC-M to BNC-M cable (2)
TNC-M to BNC-F adapter (5)
Fuses 5A 32V (2)
Accessory case
Internal battery
DC cigarette lighter adapter
Getting Started manual
CD-ROM manual

OPTIONAL ACCESSORIES

AC27001 - Hard-side carrying case
AC27002 - 20 dB, 50 W attenuator kit

Kit Includes

20 dB/50 W attenuator
N-F, BNC-F adapter
TNC-M, N-M adapter
Attenuator Type

Bi-Directional
DC - 18 GHz

Maximum Input Level

50 W/47 dBm average at +25° C

AC27003 - 20 dB/150 W attenuator kit includes

Kit Includes

20 dB/150 W attenuator
N-F, BNC-F adapter
N-M, BNC-F adapter
Attenuator Type

Uni-Directional

Maximum Input Level

150 W average for temperatures up to 25°C linearly derated to 125 W at 55 C, horizontal 200 watts peak for 30 seconds ON/ 5 minutes OFF @ 25

AC27005 - Extra battery
AC27006 - Flip cover
AC25042 - Antenna, BNC, 50 MHz
AC25045 - Antenna, BNC, 150 MHz
AC25043 - Antenna, BNC, 450 MHz
AC25044 - Antenna, BNC, 800 MHz
AC27013 - Dual directional coupler kit

Includes

Dual directional coupler
10 dB attenuator
BNC 12 in. cables (2)
Dual directional coupler type

Frequency

20 to 200 MHz

Power

250 W

Coupler

30 dB

I/O

Type N input - radio under test transmitter
Type N output - cable/antenna under test
BNC output - measuring forward power
BNC output - measuring reverse power

EXTENDED STANDARD WARRANTIES FOR 3500

W3500/203 Extended Standard Warranty 36 Months

W3500/205 Extended Standard Warranty 60 Months

EXTENDED STANDARD WARRANTIES WITH CALIBRATION FOR 3500

W3500/203C Extended Standard Warranty 36 Months with scheduled calibration

W3500/205C Extended Standard Warranty 60 Months with scheduled calibration



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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.