



Chapter 1 General Information

Table 1-1. Performance Specifications (1 of 2)

Specifications are valid when the unit is calibrated at ambient temperature after a 5 minute warmup.

Description	Value
Frequency Range:	
Site Master S120A	600 to 1200 MHz
Site Master S235A	1250 to 2350 MHz
Site Master S250A	1750 to 2500 MHz
Frequency Accuracy (RF Source Mode)	75 parts per million @ 25°C*
Frequency Resolution	100 kHz
SWR:	
Range	1.00 to 65.00
Resolution	0.01
Return Loss:	
Range	0.0 to 54.00 dB
Resolution	0.01 dB
Cable Insertion Loss:	
Range	0.0 to 54.00 dB
Resolution	0.01 dB
Gain/Insertion Loss:	
Range	-120.0 to 100.0 dB
Resolution	0.01 dB
**Distance-To-Fault (DTF):	
Range	0 to (Resolution x 129)
Resolution (in meters)	$(1.5 \times 10^9)(V_f)$
(Rectangular Windowing)	$\Delta Frequency$
	Where V_f is the cable's relative propagation velocity.

Table 1-1. Performance Specifications (2 of 2)

Wattmeter Power Monitor:	
Range	-80.0 to +20 dBm <i>or</i> 10.0 nW to 100.0 mW
Offset Range	0 to +60.0 dB
Resolution	0.1 dB <i>or</i> 0.1 xW
Test Port, Type N	50 Ohms
***Immunity to Interfering signals up to the level of	+10 dBm
Maximum Input (Damage Level):	
Test Port, Type N	+22 dBm
RF Detector	+20 dBm
Measurement Accuracy: Measurement accuracy depends on calibration components. Precision calibration components have a directivity of 42 dB.	
Temperature:	
Storage	-20° C to 75° C
Operation	0° C to 50° C
Weight:	2.2 pounds
Size:	8x7x2¼ inches

* ± 2 ppm/ $\Delta^{\circ}\text{C}$ from 25°C

** Fault location is accomplished by inverse Fourier Transformation of data taken with the Site Master. Resolution and maximum range depend on the number of frequency data points, frequency sweep range and relative propagation velocity of the cable being tested.

*** Immunity measurement is made in CW mode with incoming interfering signal exactly at the same frequency (worst case situation). Typical immunity is better when swept frequency is used.

The following items are supplied with the basic hardware.

- Soft Carrying Case
- AC-DC Adapter
- Automotive Cigarette Lighter 12 Volt DC Adapter,
- 3 1/2-inch floppy disk containing the Software Tools program. This program contains Fault Location (DTF) and Smith Chart functions
- Serial Interface Cable (Null Modem Type)
- One year Warranty (includes battery, firmware, and software)
- User's Guide

Options

- Option 5 — Add RF Wattmeter Power Monitor

Optional Accessories

- N type Standard (m) Short, Part No. SM/STS
- N type Standard (f) Short, Part No. SM/STSNF
- ANRITSU Precision N (m) Short/Open, Part No. 22N50
- ANRITSU Precision N (f) Short/Open, Part No. 22NF50
- Site Master Precision N (m) Load, 42 dB, Part No. SM/PL
- Site Master Precision N (f) Load, 42 dB, Part No. SM/PLNF
- 7/16 (m) Precision Open/Short/Load, Part No. 2000-767
- 7/16 (f) Precision Open/Short/Load, Part No. 2000-768

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- Adapter, Precision N (m) to N (m), Part No. 34NN50A
- Adapter, Precision N (f) to N (f), Part No. 34NFN50
- Adapter, 7/16 (f) to N (m), Part No. 510-90
- Adapter, 7/16 (f) to N (f), Part No. 510-91
- Adapter, 7/16 (m) to N (m), Part No. 510-92
- Adapter, 7/16 (m) to N (f), Part No. 510-93
- Adapter, 7/16 DIN (m) to 7/16 DIN (m), Part No. 510-96
- Adapter, 7/16 DIN (f) to 7/16 DIN (f), Part No. 510-97
- Armoured Test Port Extension Cable, 1.5 meter, N (m) to N (f), Part No. 15NNF50-1.5A
- Armoured Test Port Extension Cable, 3.0 meter, N (m) to N (f), Part No. 15NNF50-3.0A
- Armoured Test Port Extension Cable, 5.0 meter, N (m) to N (f), Part No. 15NNF50-5.0A
- Armoured Test Port Extension Cable, 1.5 meter, N (m) to N (m), Part No. 15NN50-1.5A
- Armoured Test Port Extension Cable, 3.0 meter, N (m) to N (m), Part No. 15NN50-3.0A
- Armoured Test Port Extension Cable, 5.0 meter, N (m) to N (m), Part No. 15NN50-5.0A
- Armoured Test Port Extension Cable, 1.5 meter, N (m) to 7/16 DIN (f), Part No. 15NDF50-1.5A
- Armoured Test Port Extension Cable, 1.5 meter, N (m) to 7/16 DIN (m), Part No. 15ND50-1.5A

- RF Detector, 1 to 3000 MHz, N(m) input connector, 50 Ohms, Part No. 5400-71N50
- Transit Case for Site Master, Part No. 760-194A
- HP Deskjet 340 Printer, Part No. 2000-766
- Serial-to-Parallel Converter Cable (use with the HP 340 Printer), Part No. 2000-753
- Seiko DPU-411 Thermal Printer, Part No. 2000-754 (U.S.) or 2000-761 (Europe)
- Serial Interface Cable (use with the DPU-411 Printer), Part No. 2000-756
- Thermal Paper (use with the DPU-411 Printer), Part No. 2000-755

Performance Specifications

Performance specifications are provided in Table I-1, on the following page.