Performance Specifications

Performance specifications are provided in Table 1-1.

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 S112	5 to 1000 MHz
Site Master S113	5 to 1200 MHz
Frequency Accuracy (CW Mode)	75 parts per million @25°C*
Frequency Resolution	10 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 20.00 dB
Resolution	0.01 dB
**Distance-To-Fault (DTF):	
Range	0 to (Resoution x 129)
Resolution (in meters) (Rectangular Windowing)	$\frac{(1.5 \times 10^8)(V_p)}{\Delta Frequency}$ Where V_p is the cable's relative propagation velocity.

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

Wattmeter Power Monitor:	
Range	–50.0 to +20 dBm *or* 10.0 nW to 100.0 mW
Offset Range	0 to +60.0 dB 0.1 dB *or*
Resolution	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. Standard calibration components have a directivity of 35 dB. 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/Δ°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 intefering signal exactly at the same frequency (worst case situation). Typical immunity is better when swept frequency is used.*