

2. 955 COMBINATION FAULT LOCATOR

A. Measurements

Function	Range	Resolution	Accuracy
AC Voltage:	0 to 75 VAC	0.1V	0.7V
	75 to 250 VAC	1.0V	3%
DC Voltage:	0 to 100 VDC	0.1V	0.5V
	100 to 350 VDC	1.0V	3%
DC Current:	0 to 100 mA DC (Zin = 430 Ohms)	0.1 mA	0.3 mA
Resistance ¹ :	0 to 100M Ohms	100 Ohms @ 50K Ohms	1% @ 50K Ohms
Opens ¹ : (normal mode)	0 to 9.99 Kft	10 ft @ 10 Kft	±1%
	10K ft to 100 Kft	100 ft	+1/-10%
Tolerance to Leakage, Normal Mode: >15K Ohm to ground / 190K Ohm to battery			
Opens ¹ : (special mode)	0 to 999 ft	1 ft	±1%
	1 Kft to 10 Kft	100 ft @ 10 Kft	+1/-10%
Tolerance to Leakage, Special Mode: >1200 Ohms to ground / 18K Ohms to battery			

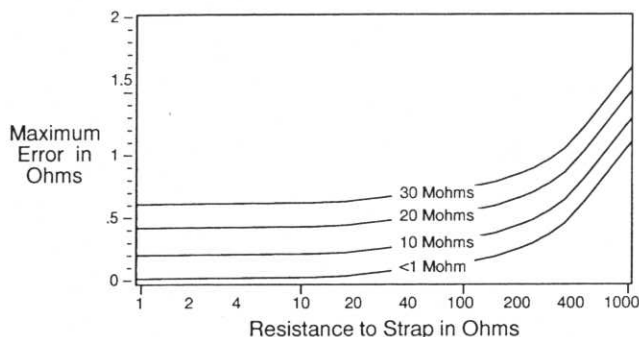
Note: ¹ Perform a self-calibration before taking the readings.

B. Resistance Fault Locate

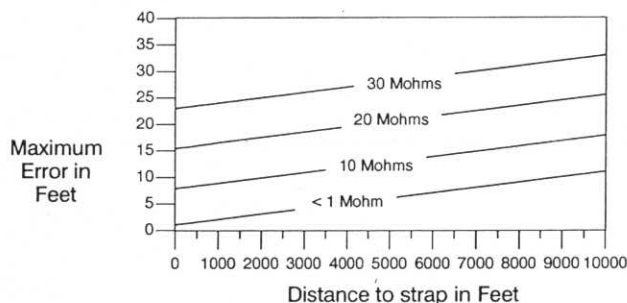
Note: Accuracy is dependent on power influence noise; the resistance fault specifications are for low noise situations.

Function	Range	Resolution	Accuracy ^{1,2}
Fault Range:	Up to 30 M Ohms		
Resistance to Fault: ² (@ 70° no noise)	0 to 9 Ohms	0.01 Ohm	±0.1% RTS ±0.01 Ohm
	10 to 99 Ohms	0.01 Ohm	±0.1% RTS ±0.01 Ohm
	100 to 999 Ohms	0.1 Ohm	±0.2% RTS ±1.0% RTS
	1K to 7K Ohms	1.0 Ohm	±1.0% RTS
Resistance to Feet Conversion Resolution: ³	1 ft to 1,000 ft	0.1 ft	
	1K ft to 10K ft	1.0 ft	
	10K ft to 100K ft	10.0 ft	
Temperature Sensor:	0° to 140° F	1° F	±2° F
Noise Immunity:	7VAC limit for all frequencies		

- Note:** ¹ See figures below for accuracies. All resistance to fault measurement accuracies have an added factor of (2×10^{-8}) RF Ohms.
² Single pair hook-up measurement accuracy is strictly dependent on whether the reference pair is exactly the same electrical length as the faulted pair. Accuracies are doubled for single pair hook-up.
³ Accuracy depends on correct temperature setting as well as gauge accuracy of copper. The temperature can be read by the built-in sensor or can be operator-entered.



Accuracy in Ohms for Various Fault Resistances



Accuracy for 24 Gauge for Various Fault Resistances

C. Outputs

Tones	Frequency	Level	Impedance
Identification:	577.5 Hz	6V PK to PK	100 Ohms (Current limited to 6 mA)
Precision Tones:	1004 ±1 Hz	0 dBm ± 0.2 dB	600 Ohm
Harmonic distortion: <45 dB (up to 10th harmonic)			

Specifications

Section 3

D. Environment

	Operation	Storage
Temperature:	0° to +140° F	-40° to 165° F
Humidity:	0 to 100% (condensing)	0 to 100% (condensing)
Altitude:	0 to 15,000 Feet	0 to 40,000 Feet
Shock:	Can withstand a drop onto a wood surface from a distance of approximately four feet	

E. Dimensions

Height	7.0 in.
Width	10.5 in.
Depth	7.5 in.
Weight	7.5 lbs
Cord length	5 ft

F. Battery Power

The operating time between battery change-out or charges depends on temperature of set and operation modes used.

For non-rechargeable batteries typical operating time is about 200 hours between battery change-out.

For rechargeable batteries typical operating time is about 80 hours between charges.