

HST-3000 Copper Measurements

Copper measurements technical feature summary Ω

DVOM measurements

AC Voltage	0 to 280 V peak (1% +/- 0.5V)
DC Voltage	0 to 280 (1% +/- 0.5V)
DC Current	0 to 90 mA (1% +/- 0.5mA)
Resistance	0 – 999M Ω
Resistance accuracy	0 to 9999 Ω (1% +/- 5 Ω) 10 k Ω to 99.9 k Ω (+/- 1%) 100 k Ω to 999 k Ω (+/- 3%) 1 M Ω to 9.9 M Ω (+/- 3%)
Leakage (test voltage >100 V)	to 999 M Ω
Distance to short	distance calculation based on resistance, temperature and wire gauge

Opens measurement

Displays the line capacitance or the calculated distance based on selected cable parameters	
Distance range	0 to 30 km (0 to 100 kft)
Accuracy	0 to 6 km (20 kft), (+/- 2%)

Noise and Balance

Longitudinal balance	28 to 100 dB
Noise (voice band, C filter/ psopho)	0 to 50 dBmC (equivalent to -90 to -40 dBm)
Power (mains) influence	40 to 120 dBmC (equivalent to -50 to +30 dBm)

Generator

Frequency range	200 Hz to 7000 Hz (resolution 1 Hz)
Level range	0 to -20 dBm (resolution 1 dB)
Level accuracy	0.5 dB
Termination impedance	600 Ω or 900 Ω

Receiver

Frequency range	200 Hz to 7000 Hz (resolution 1 Hz)
Level range	+10 to -40 dBm (resolution 0.1 dB)
Level accuracy	0.5 dB
Termination impedance	600 Ω or 900 Ω

Miscellaneous

Load coil detection/ count distance to first	0 to 5 coils
Caller ID	name, phone number , raw data
Phone feature	DTMF phone

TDR (optional)

Extra Short range TDR	0 to 600 m (2 kft)
Medium range TDR	30 – 2.5 k m (100 to 8 kft)
Extended Long range TDR	300 to 5 km (1kft to 6 kft)
Vp range (velocity of propagation)	0.300 to 1.000
Gain / Zoom	HORZ (distance) manual VERT (Amplitude) Manual or Automatic TVG
Graphical display	dual trace display and cursor

Resistive Fault Location (optional)

Test methods	Single pair and separate pair hookup
Fault Size (RF)	0 to 20 M Ω
Fault location accuracy	0 to 99 Ω , (0.1% + 0.1 Ω + RF/3.5M) 100 to 999 Ω (0.2% + 0.1 Ω + RF/5M)
Loop Size	up to 7000 Ω

Wideband (optional)

Generator frequency range	10 kHz to 2.2 MHz
Generator level range	+5 to -20 dBm
Receiver frequency range	10 kHz to 2.2 MHz
Receiver level range	+10 to -70 dBm
Termination impedance	100 Ω , 135 Ω
Noise weighting filters	E, F, G, none (IEEE Std 743)
Wideband noise level	+10 to -70 dBm
Impulse noise counter	1 to 60 min or continuous
Impulse Filters	E, F, and G
Impulse Noise Thresholds	E 45 to 100dBm F 40 to 100dBm G 35 to 100dBm
Spectral measurements frequency	10Hz to 3.8MHz
Spectral measurements level	-80 to +10dBm -118 to -28dBm/Hz

Transmission Impairments (Optional)

Wide Band

NEXT	
Frequency range	10 to 2000KHz
Level	0 to 50dB
Impedances	100 and 135

FEXT

Frequency range	10 to 2000KHz
Level	0 to 50dB
Impedances	100 and 135

SNR

Filters	E, F, G and None
Level	0 to 50dB
Terminations	75,100, 120, 135 and Bridge

Return Loss

Frequency range	10 to 2000KHz
Level	0 to 50dB
Impedances	100 and 135

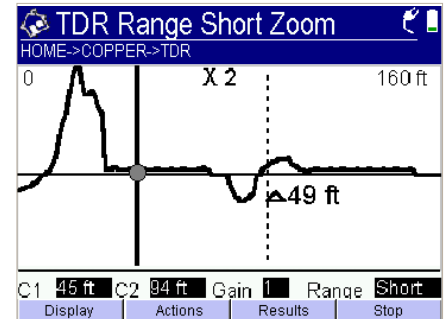
Narrow Band

Noise/ Noise with Tone

Filters	C, Psopho.,Channel and None
Level	-60 to +10 dBm
Terminations	600, 900 and Bridge

Impulse Noise/ Noise with Tone

Filters	C, Psopho.,Channel, Flat, Optional and None
Thresholds	0 to -50dBm (40 to 90 dB r n)



SNR

Filters	C, Psopho., Channel and None
Level	0 to 50dB
Terminations	600, 900 and Bridge

Return Loss

Frequency range	200 to 5000Hz
Level	0 to 50dB
Impedances	600 and 900

Physical specifications

Size	(H x W x D) 9.5 x 4.5 x 2.75 in
Weight	2.7 lb with battery
Operating temperature	22° F to 122° F
Storage temperature	-40° F to 150° F
Battery life	6-8 hrs typical use
Charging time	7 hrs from full discharge
Display LCD Backlit Monochrome 320x240	0 to 50dB

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