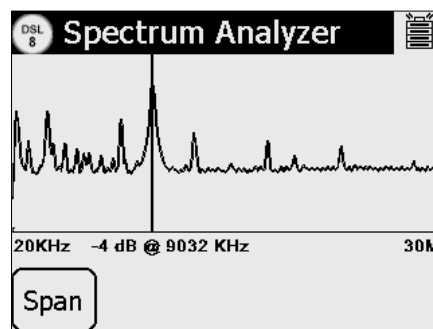


3M™ Dynatel™ Advanced Modular System 965AMS/SA30

Summary

The 965AMS/SA30 test set is an enhanced version of the 965AMS/SA unit that includes new circuitry to provide extended DSL and VDSL2-specific measurement capabilities. DSL services supported include ISDN/IDSL, HDSL, HDSL2/4, ADSL, ADSL2/2+ and VDSL2. The product conforms with standardized test specifications per IEEE 743-1995 (or newer documents).



30MHz spectrum analyzer provides wideband parametric testing

Test Range and Accuracy

Wideband Loss

Frequency Range	20kHz to 8MHz >8MHz to 30MHz	0.1 dB resolution/ ±1 dB accuracy 0.1 dB resolution/ ±2 dB accuracy
Measurement Level ⁽¹⁾	-75 to +10dBm	
Impedance	75/100/135 ohm selectable	

Wideband Frequency

Frequency Detect Range	20kHz to 30MHz
Frequency Detect Level ⁽¹⁾	-75 to +10dBm
Resolution/Accuracy	3 digit resolution, accuracy +/1%

Wideband Signal Generator

Frequency Range	20kHz to 8MHz >8MHz to 30MHz	0.1 dB resolution/ ±1 dB accuracy 0.1 dB resolution/ ±2 dB accuracy
Output Level	0dBm	
Output Impedance	75/100/135 ohm selectable	

Wideband Noise

Modes	Metallic and Longitudinal ⁽²⁾
Frequency Range	1kHz to 30MHz (depending on filter)
Metallic Level Range	+10/+20/+30/+33/+40/+42/+43/+46dBm to +90dBm per filter spec (limited to 1V peak metallic voltage at Tip and Ring)
Longitudinal Level Range	+40/+50/+60/+63/+70/+72/+73/+76dBm to +120dBm per filter spec (limited to 10V peak longitudinal voltage)
Resolution/Accuracy	1dB resolution/2dB accuracy
Impedance	75/100/135 ohms metallic; longitudinal 10Kohms



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Noise Weighting Filters

E Filter (ISDN/IDSL)	1kHz - 50kHz
F Filter (HDSL)	4.9kHz - 245kHz
G Filter (ADSL/ADSL2)	20kHz - 1.1MHz
G2 Filter (ADSL2+)	20kHz - 2.2MHz
H1 Filter (VDSL2)	20kHz/138kHz - 8.8MHz (Profile 8 with selectable USO support)
H2 Filter (VDSL2)	20kHz/138kHz - 12MHz (Profile 12 with selectable USO support)
H3 Filter (VDSL2)	20kHz/138kHz - 17.6MHz (Profile 17 with selectable USO support)
H4 Filter (VDSL2)	20kHz/138kHz - 30MHz (Profile 30 with selectable USO support)

Spectrum Analysis

Frequency Spans	125kHz, 250kHz, 500kHz, 1MHz, 2MHz, 8MHz, 16MHz, 32MHz
Frequency Range	20kHz to 30MHz
Measurement Level ⁽³⁾	-80 to +10dBm
Frequency Resolution	1% of span
Input Impedance	100/135 ohm or Hi-Z

Wideband Impulse Noise

Modes	Metallic and Longitudinal ⁽²⁾
Threshold	Filter minimum to 100dBm
Filters	E, F1, G, G2, H1-H4
Number of Thresholds	Three
Blanking Duration	Adjustable
Counting Interval	1-60 minutes
Count Capacity	65,536

(1) -70 for H4 Filter

(2) Longitudinal limited to 2.2 MHz (filter E-G2)

(3) Lowest useable level depends on frequency span.

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