

New 3M Dynatel Modular Test Set Extends xDSL Measurement Range to 30 MHz

- Dynatel 965AMS/SA30 Now Supports Full Two-way VDSL2 Parametric Testing When Used with the Far End Device III -

As digital data rate requirements and new applications expand, the impact of copper telephone line performance on signal transmission is becoming increasingly critical. The new Dynatel Advanced Modular System 965AMS/SA30 Spectrum Analyzer Test Set from 3M Communication Markets Division extends xDSL parametric measurements up to 30 MHz and can minimize pair qualification and repair times when used in conjunction with the Dynatel Far End Device III from 3M.

The Dynatel Advanced Modular System 965AMS/SA30, an enhanced version of the 965AMS/SA unit, includes new circuitry to provide extended xDSL parametric measurement capabilities including an expanded spectrum analysis range of 20 kHz to 30 MHz when used with the Dynatel Far End Device III from 3M. DSL services tested include ISDN/IDSL, HDSL, HDSL2/4, ADSL, ADSL2/2+ and VDSL2. The product conforms to standardized test specifications per IEEE 743-1995 (or newer documents).

With the new 3M Dynatel Far End Device III (FED III)—which the 965AMS/SA30 can remotely control—technicians can automatically command tones and terminations at the far end of a pair under test, for all the far-end functions needed for detailed two-way qualification and analysis.

An accessory device to the 3M Dynatel Advanced Modular System 965AMS, the FED III supports the following functions of the 965AMS Autotest feature:

- Loop Resistance (shorts Tip to Ring)
- Resistive Balance (shorts Tip-Ring to Ground)
- Longitudinal Balance (provides IEEE balance termination)
- Noise (provides quiet termination)
- Single Tone and Sweep Loss (sends loss tones for voiceband and wideband qualification)

The 3M Dynatel 965AMS now offers a complete test platform for the field technician. Introduced last year, The hand-held, five-pound 3M Dynatel 965AMS is housed in a lightweight, ergonomically designed case for portability and ease of handling. It has a large display that is highly visible, even in bright sunlight. The unit's rugged, waterproof design meets or exceeds the stringent IEC IP67 immersion test and ASTM D4169 five-foot drop test for reliable outdoor use in all weather conditions.

The “All-in-One” modem module provides VDSL2, ADSL2+, ADSL2, ADSL, and Ethernet connectivity in a single rugged module. It is compliant with ITU standards including G.993.2 (VDSL2), G.993.1 (VDSL), G.992.5 (ADSL2+), G.992.3/4 (ADSL2), G.992.1 (G.DMT), and ANSI T1.413 (ADSL). It also supports ADSL2+ Addendum 1 requirements for full rate performance with non-zero INP settings and WAN Protocols including PPPoE, PPPoA, and RFC1483. An integrated Internet browser validates web access to complete the network analysis package.

The 3M Dynatel lab brings 100 years of cumulative experience to diagnostics for the physical media layer. Developed with strict adherence to existing industry standards, the 3M Dynatel 965AMS is designed to comply with and encompasses new service types for which standards have not yet been defined.

About 3M Communication Markets Division

With more than 40 years in the telecommunications industry, 3M Communication Markets Division offers one of

the widest and most comprehensive suite of scalable solutions to communications service providers around the world from underground and buried plant, to central office, premises and more. Proven systems from 3M optimize network testing, construction, locating and maintenance for faster, more reliable high-bandwidth transmissions; enable physical media-layer capabilities for FTTP and DSL deployments from central office to customer premises; and deliver fiber optics technologies to leverage existing infrastructure or install completely new networks. More information is available at www.3mtelecommunications.com/.

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Release Summary:

The Dynatel 965AMS/SA30 Spectrum Analyzer Test Set from 3M extends xDSL measurements to 30 MHz and can minimize repair times when used in conjunction with the Dynatel Far End Device III.

Keyword Tags:

3m, adsl, diagnostics, dsl, dynatel, hdsl, isdn, signal, telecom, telecommunications, vdsl2, xdsl

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