

3M Releases Improved Dynatel Modular Test Platform

New Features of 3M Dynatel Advanced Modular System 965AMS Focus on Physical Media Layer for Unsurpassed Accuracy

An outside plant technician using the newest features of the 3M Dynatel Advanced Modular System 965AMS will find an easier-to-use test set that includes a standard voiceband spectrum analyzer and live differential TDR in addition to the optional 3M Dynatel All-in-One Modem Module VDSL2 with Internet browser and Ethernet test capability introduced in February 2008.

“The advanced copper test capabilities of the 3M Dynatel Advanced Modular System 965AMS not only measure, but analyze the network,” said Steve King, lead specialist for product development for the 3M Communication Markets Division. “Unlike many other diagnostic test sets, this system focuses primarily on the physical media layer instead of merely the protocol being carried over it. The advantage is technicians can quickly and accurately identify copper line problems, pinpointing where, why or to what extent a fault or interference exists.”

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 also complies with and encompasses new service types for which standards have not yet been defined.

Now a standard feature of the 3M Dynatel 965AMS, the new voiceband spectrum analyzer provides a graphical representation of the voiceband frequency spectrum giving technicians the ability to identify noise sources that contribute to metallic noise or power influence readings. In addition, the new wideband spectrum analyzer interference templates allow technicians to compare DSL interference signatures to further pinpoint and identify line problems.

The new live differential time domain reflectometer (TDR) option allows the outside plant technician to capture a baseline trace on a troubled pair then view a live trace as stress voltage is applied to the pair. Differential operation with panning and zoom further highlights differences to enable detection of subtle changes in the pair.

Combined with the new “All-in-One” modem module, these new features of the 3M Dynatel 965AMS offer a complete test platform for the field technician. 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 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.

[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.

[About 3M](#)

A recognized leader in research and development, 3M produces thousands of innovative products for dozens of diverse markets. 3M's core strength is applying its more than 40 distinct technology platforms - often in combination - to a wide array of customer needs. With \$24 billion in sales, 3M employs 75,000 people worldwide and has operations in more than 60 countries. For more information, visit <http://www.3M.com>.

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Release Summary:

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