

Mapping BER and Signal Strength of P25 Radio Systems

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September 11th and Hurricane Katrina were two pivotal events in the course of America's recent history. In addition to transforming the way the United States prepares for and responds to threats against the homeland and national interests, these two events reinforced the need for interoperability between the U.S. military and civilian public safety agencies (e.g., police and fire). Project 25 (P25) is a suite of standards for digital radio communications that is specifically designed to meet this need.

While having many benefits, the P25 standards pose interesting measurement challenges for installers and network managers of P25-compliant public safety communications systems. One key challenge lies in mapping bit error rate (BER) and signal strength (RSSI) measurements, which are essential to diagnosing coverage problems and avoiding critical loss of communications. While general-purpose test equipment is currently available to measure P25 system components, these bench-top, fully featured laboratory design, development and compliance instruments are simply too expensive, not to mention big, bulky and very complicated to operate. Today's P25 radio system installers and network managers demand an alternate solution, one that offers a quick and easy, handheld approach to mapping BER and signal strength.

P25 Technology Overview

P25 standards govern the manufacturing of interoperable, digital two-way wireless communications products that are used by federal, state/province and local public safety agencies to communicate with other agencies and mutual aid response teams in emergencies. It was developed through the joint efforts of the Association of Public Safety Communications Officials International (APSCO), the National Association of State Telecommunications Directors (NASTD), selected Federal Agencies, and the National Communications System (NCS). P25 was standardized and continues to be administered by the Telecommunications Industry Association (TIA as ANSI/TIA-102). While developed primarily for North America, P25 technology and products have also been selected and deployed in other public system applications worldwide.

P25 standards define the interfaces, operation and capabilities of any P25-compliant radio system. P25-compliant radios can communicate in analog mode with legacy radios and in either digital or analog mode with other P25 radios (Figure 1). Phase 1 radios are designed for 12.5-kHz channel bandwidths and use compatible 4-level FM, 20-kHz modulation for digital transmissions. P25 radios, which also operate in analog mode on either 20-kHz or 12.5-kHz channels. This backward compatibility allows P25 users to gradually transition to digital while continuing to use analog equipment. An open interface to the RF Sub-System, included in P25 radios, facilitates interworking of different vendors' systems.



Figure 1. P25 radio systems can use analog or both analog and digital modes.

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