

Anritsu Company Introduces NBFM Test Mode For LMR Master™ Handheld Analyzer

*— Support for Narrowband Analog FM Extends Handheld Analyzer Measurement Capabilities;
S412E Perfect Test Tool for Analog and Digital Systems Used by Public Safety Agencies —*

Morgan Hill, CA – For Immediate Release – Anritsu Company introduces an NBFM Mode for its LMR Master S412E handheld analyzer that allows users to conduct fast, accurate measurements on Narrowband Analog FM (NBFM) Land Mobile Radio (LMR) systems used by public safety agencies, utilities, and other private organizations. With the new mode, the LMR Master S412E extends its measurement and analysis capabilities, and provides field technicians and engineers who deploy, install, and maintain LMR networks with a handheld test solution that helps ensure optimum system performance.

The LMR Master S412E's NBFM Mode, which is now standard on all new instruments and can be retrofitted to existing instruments via a standard no-cost firmware upgrade, can automatically detect the carrier frequency of an unknown transmitter, tune to that frequency, and analyze the transmitter's deviation, CTCSS/DCS tone, occupied bandwidth and other parameters. With the NBFM Mode, the LMR Master S412E can support analog LMR systems that use either 12.5 kHz channels or 25 kHz channels, making it a flexible single-instrument solution that can address a variety of networks.

The NBFM Mode expands the capabilities of the LMR Master S412E, which can also support P25, NXDN, and DMR/MotoTRBO™ systems. The LMR Master S412E significantly reduces the number of tools field technicians and engineers must carry, thereby saving time and money while ensuring accuracy. It features a built-in vector network analyzer (VNA) that delivers excellent transmission dynamic range of > 100 dB, so users can view and adjust the RF performance of RF devices including filters, duplexers, transmitter combiners, receiver multi-couplers and tower-mounted amplifiers. VNA measurements are quickly displayed and updated on the LMR Master S412E's 8.4" high-resolution TFT touchscreen which features a fast 850 µs/point sweep speed.

A built-in spectrum analyzer with excellent DANL of -152 dBm, dynamic range of > 95 dB (both 10 Hz RBW @ 2.4 GHz) and a third-order intercept of greater than +16 dBm makes the LMR Master S412E the ideal tool for finding low-level signals that can interfere with LMR systems, even in the presence of strong nearby carriers typically found at LMR repeater sites. It features an industry-leading low phase-noise reference oscillator (< -110 dBc/Hz typical @ 10 kHz offset) that allows precise measurement of NBFM, P25, NXDN, and DMR system performance including emission masks, bit-error rate (BER), and modulation fidelity or error-vector magnitude (EVM).

The LMR Master S412E also features an optional high-accuracy power meter that provides true RMS measurements from 50 MHz to 6 GHz using a selection of external sensors, including inline sensors capable of handling up to 150 watts. It is the ideal solution for making accurate measurements of both CW and modulated signals.

The LMR Master S412E has delivery of 4-6 weeks ARO.

About Anritsu

Anritsu Company (www.anritsu.com) is the American subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for more than 110 years. Anritsu provides solutions for existing and next-generation wired and wireless communication systems and operators. Anritsu products include wireless, optical, microwave/RF, and digital instruments as well as operations support systems for R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. With offices throughout the world, Anritsu sells in over 90 countries with approximately 4,000 employees.

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