

Hand-held instrument now features 'scope' mode for real-time analysis of RF emissions



RF radiation safety specialist Link Microtek is now offering the SRM-3006 selective radiation meter equipped with 'scope' mode, which enables the hand-held instrument to be used to analyse the frequency content and time characteristics of a wide variety of RF emissions.

Manufactured by Narda Safety Test Solutions, the SRM-3006 was specifically developed for environmental and safety measurements of electromagnetic fields. It uses a variety of isotropic or single-axis probes to cover the entire frequency range from 9kHz to 6GHz.

In its new scope operating mode, the instrument displays the real-time characteristics of

signals from sources such as radar equipment, digital TV and radio transmitters, and the latest generation of wireless services, including WiFi, WLAN, WiMAX, DECT, Bluetooth and ZigBee.

In the same way as an oscilloscope, the SRM-3006 can now be used to set triggers and measure pulse widths and signal periods. Time intervals can be set from 24 hours down to nanoseconds, and the resolution goes down into the nanosecond range.

Particularly suitable for detailed investigations of signals, the scope-mode facility allows users to make long-term observations of individual channels, e.g. over the course of an entire day, or to detect even the shortest of pulses.

In complex, multi-frequency environments, specialists can use scope mode to determine the type of field source at specific frequencies by examining the features of the signal's time characteristic.

The SRM-3006 measures the average, RMS and peak values simultaneously. Results can be displayed either as absolute values in a choice of different units or as a

percentage of a permissible limit value, e.g. ICNIRP reference levels, and the weighting curves for all current safety standards are stored in the instrument for this purpose.

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