

R&S®EMF-M EMF-Monitor Station



Fully automatic EMF measurement station

Automated EMF long-term measurements expand snapshot measurements associated with risk communication

Conventional on-site measurements only cover the situation at the moment. Signal weighting is also difficult because some radio signals are only transmitted for a short time and because advanced technologies make use of adaptive power and radiation pattern control.

Such problems are solved by automatically and continuously monitoring typical or critical measurement points, which yield conclusive results. This approach involves standard-compliant monitoring over the entire frequency range, where the individual electromagnetic emissions are allocated to exact frequencies. This solution allows the evaluation of both short-term and long-term fluctuations, e.g. due to new technologies, and provides reliable data for risk communication and research.

- ▮ Automated EMF long-term measurements
- ▮ Frequency range 9 kHz to 3 GHz, optional 6 GHz
- ▮ Accurate and reliable detection of each emission
- ▮ Automatic wireless data transmission and remote configuration via GSM
- ▮ Ruggedized design for outdoor use
- ▮ Easily transportable

The main components of the R&S®EMF-M are

- ▮ Radome with measurement antennas, thermo hygro-sensor and GPRS antenna
- ▮ Protective cover (housing GPS antenna)
- ▮ R&S®ESPI test receiver
- ▮ System controller with measurement software and watchdog
- ▮ Temperature management with display
- ▮ Interface for external monitor for local configuration
- ▮ Foldable, detachable base

As an autonomous test station, the R&S®EMF-M precisely and seamlessly detects electromagnetic emissions in the frequency range from 9 kHz to 3 GHz or 6 GHz specified by many EMF standards.

The wide dynamic range covers both strong and weak signals. The frequency selective field strength measurement is not dependent on the angle of incidence and polarization, and covers everything from analog modulated signals up to digital, pulsed wideband or radar signals.

Measurement and signal analysis are controlled by the tried-and-tested R&S®RFEX EMF measurement software. This software allows the exact detection, allocation and evaluation of electromagnetic emissions. The measurement results are automatically transmitted to a server and – in Germany, for example – made available to the public via the Internet.

More information: www.rohde-schwarz.com, search term: emf

