



Photo 41942-1

EMS measurements to IEC801-6/IEC1000-4-6

Brief description

With the new European standards for electromagnetic compatibility and the relevant national EMC laws that came into effect, EMS tests on electrical and electronic equipment are required in all areas of the civilian sector. The test procedure for determining susceptibility to conducted RFI is described in the international standard IEC 1000-4-6. In Europe, a corresponding EN standard was derived from this standard (EN 61000-4-6).

Test System TS9986 enables automatic EMS testing to IEC 1000-4-6

with severity levels of up to 10 V/m in the extended frequency range 150 kHz to 230 MHz. It is an efficient and reliable tool both for tests in development and acceptance tests.

Main features

- Automatic measurement of susceptibility to conducted interference to IEC 1000-4-6 and other standards
- High accuracy and reproducibility of results
- Short preparation and test times with powerful software under MS-Windows
- Efficient test routines
- Automatic generation of detailed test reports
- User-friendly operation

System configuration

System TS9986 includes a signal generator, a 25 W power amplifier and a power meter. The system is fully computer-controlled (eg PSM, page 368) via the IEC/IEEE bus. This makes for reproducible and largely automatic test routines.

Operation

Test System TS9986 comes with the Rohde & Schwarz System Software EMS-K1 for Windows (see page 326). The software makes it possible to carry out automatic EMS measurements to all relevant standards. EMS-K1 is a convenient, cost-effective and reliable tool, enabling fast and easy system operation and high throughput. The extended test

and configuration capabilities ensure high reproducibility of results.

Expandability

Test System TS9986 comes in three configuration stages plus an option for automatic EUT monitoring. One or sev-

eral different coupling/decoupling networks may be required in addition to the TS9986 basic system configuration depending on the type and number of connections to the EUT. Further accessories including a computer desk, a wooden test bench with a copper surface, and feedthroughs for

shielded walls are available to yield a system tailor-made to customer's requirements.

Overview of models

Model	Main applications	Technical features	Order No.
TS9986A	Budget-priced basic system for development labs, EMC labs and test houses; compliance tests already possible	25 W amplifier, EMS control unit designed as a 19" desktop	1076.6993
TS9986B	Expandable basic system for EMC labs (quality management) and test houses	25 W amplifier, EMS control unit designed as a 19" rack	1076.7090
TS9986D	Universal, high-performance expandable system; for test houses and EMC labs	150 W amplifier, EM clamp with decoupling network, EMS control unit designed as a 19" rack	1076.7290