

In brief

R&S®CMW 290 mobile radio service tester

A constant barrage of new mobile phone models, deadline pressure, quality standards – everyday life in service centers demands an efficient and streamlined workflow. The new R&S®CMW290 functional radio communication tester meets these demands when it comes to diagnostic testing of wireless user equipment.

For the R&S®CMW290, Rohde&Schwarz took the powerful functionality of the R&S®CMW500 mobile radio communication tester – the global leader in testers for the development and production of wireless equipment – and stripped it down to only those functions that are needed for service. To allow the service engineer to focus on the task at hand, operation is exclusively via a PC using the R&S®CMWrun sequencer software tool, which includes test cases for all conventional mobile radio and wireless standards as well as a database of the T&M specifications for the mobile phone models under test. An expert view, in which the service engineer has access to the full range of

features, makes it possible to change the test sequence and to add new models. In test mode, the GUI is free of distractions and is primarily used to start the test, which then runs fully automatically and concludes with the (printable) test report. All GUIs can be replaced with customer-specific versions. The R&S®CMW290 is therefore also suitable for making quick diagnoses at the point of sale, e.g. in flagship stores. At the other end of the complexity scale for mobile phone servicing lies device calibration and adjustment, both of which require test software from the mobile phone manufacturer on the R&S®CMW platform. If such software exists, it can be seamlessly integrated into the test sequence.

The DUTs are connected via cable or – more typically – wirelessly via a shielded antenna coupler. The R&S®CMW-Z11, specifically adapted to the R&S®CMW290, is the preferred tool, not only for the wireless communications industry but wherever high-quality radio modules require maximum reliability, such as in the automotive, medical or A&D sector. The Internet of Things with its innumerable radio interfaces also generates test requirements; the industry is ready for this development with the R&S®CMW290.



Stripped down to the essentials:
R&S®CMW290 tester with R&S®CMW-Z11
antenna coupler.

