On-site maintenance Organizational level for R&S®M3AR radios



R&S®M3AR service organizational level

The Rohde & Schwarz service partner program offers you a comprehensive range of support services that enable you to service your Rohde & Schwarz radios yourself.

The organizational level (O-level) allows you to perform the following service tasks:

Incoming inspection/diagnosis

The incoming inspection evaluates the status of the radio:

- Optical and mechanical inspection
- Validation of radio hardware, software and firmware configuration
- I Readout and analysis of error logs and built-in test (BIT)

Scheduled maintenance

Scheduled maintenance covers the following activities:

- Replacement of internal radio batteries (applicable to radios with EPM capability)
- I Recalibration of the internal reference oscillator
- Storage life test at scheduled maintenance intervals (operational test for stocked radios)

Functional test

The functional test is based on the R&S°UCS-Compact automated plug-and-play test system. This test covers the main functions of the radio and serves to verify functionality after O-level maintenance activities before reinstallation into the aircraft.







O-level service solution for R&S®M3AR radios

The test equipment used for O-level servicing of R&S®M3AR radios consists of the R&S®UCS-Compact radio test set and the radio's harness and connectors. The R&S®UCS-Compact has been designed based on the R&S®UCS test system family, the platform used in Rohde&Schwarz production and repair facilities. It ensures high performance during testing and availability of up-to-date test software.

Key facts

- Easy to operate, fast and automatic test procedures
- Optimized for quick turn-around, to enhance operational availability
- Automatic guidance through the test process
- Detailed functional testing and reporting
- All radio-specific cabling included (quick and easy connection to the devices under test)
- Ready to test current and future Rohde & Schwarz radios (airborne, stationary/shipborne, tactical)
- The highly sophisticated R&S°CMA180 radio test set as the heart of the R&S° UCS-Compact is remotely controlled via IEC/IEEE bus interface
- Transportable and robust 19" aluminum rack (rugged, water-resistant transport case in line with IP66)



R&S®UCS-Compact radio test set for on-site maintenance and overhaul (drawer monitor in operation position).

General data		
Dimensions		
R&S®UCS-Compact mobile system	without cover (W \times H \times D)	20.94 in × 24.33 in × 31.96 in (532 mm × 618 mm × 812 mm)
	with cover (W \times H \times D)	20.94 in × 24.33 in × 37.08 in (532 mm × 618 mm × 942 mm)
Weight		75 kg
Temperature range	operating	+5°C to +40°C
	storage	-20°C to +60°C
	best test accuracy	+20°C to +30°C
Power supply		100 V to 240 V AC, 50/60 Hz
Fuse protection	115 V	16 A
	230 V	10 A
Other		
Setup of test system		approx. 10 min
Recommended calibration interval for system devices		1 year

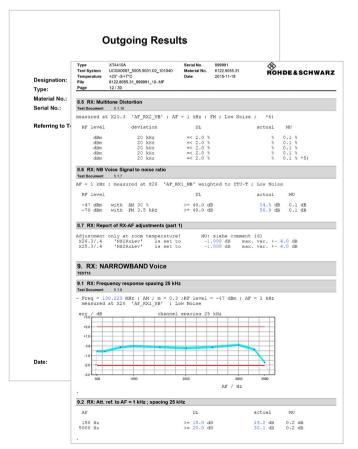
Comprehensive performance testing of radios

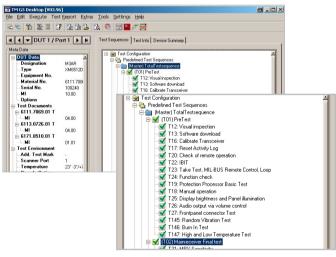
Detailed functional testing and reporting

The R&S[®]UCS-Compact radio test set family is designed to perform a wide range of different tests on radio equipment.

All measurement results are stored and can be printed out in a clear and comprehensive test report. Reports can also be exported in different formats for further use.

Retrieved test results can be exported to standard tools such as Microsoft® Excel for further evaluation and investigation. Standard data export formats such as CSV, XLS, PDF and RTF are available.





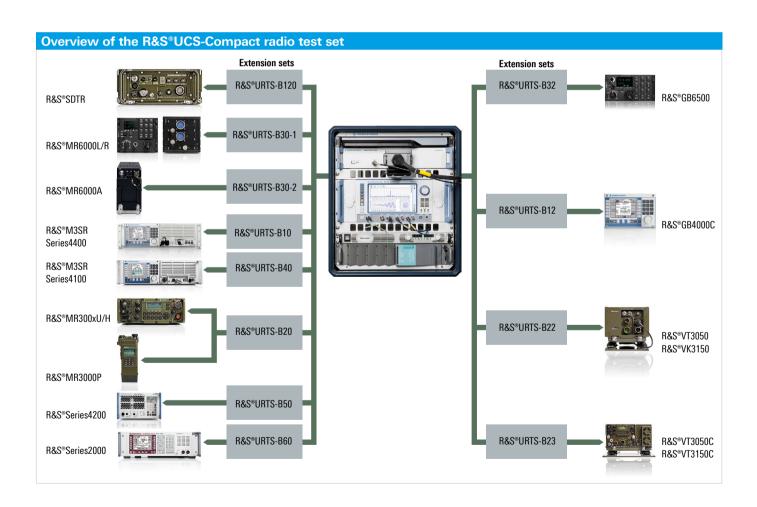
Predefined test sequences make it easy to switch between different test levels.

Comprehensive test reports are displayed on the screen or exported in different formats.

Overview of the R&S®UCS-Compact radio test set

Thanks to the modular design, R&S°UCS-Compact supports all other R&S°M3xR software defined radio products, such as the R&S°M3SR stationary/shipborne radios and the R&S°M3TR tactical radios.

The scope of testing is different for each Rohde & Schwarz product. For details about service for your specific R&S®M3xR software defined radio product, simply contact us.



Your local Rohde & Schwarz expert will help you determine the optimum solution for your requirements. To find your nearest Rohde & Schwarz representative, visit www.sales.rohde-schwarz.com

Rohde & Schwarz Service Partner Program

A Rohde & Schwarz service level agreement provides an extensive range of support services to cover your service needs.

Maintenance, functional testing and spare parts

The Rohde & Schwarz Service Partner Program is a self-service program and qualifies you to service your R&S®M3xR software defined radio products in accordance with your specific requirements. You will have access to the spare parts for your R&S®M3AR radios.

Comprehensive training

Comprehensive training is available to enable you service your R&S®M3AR radios properly. You will learn how to operate your test system and perform the required maintenance work on your radios.

24/7 problem reporting and technical support during business hours

The Rohde & Schwarz Internet portal lets you submit a support request around the clock from anywhere in the world. Your support request will be answered by the Rohde & Schwarz support team during German business hours. You can check the status of your ticket at any time via the Rohde & Schwarz Internet portal.

First-class support from Rohde & Schwarz

As a service partner, you will receive first-class support from Rohde & Schwarz. Our experts compare your test system with the Rohde & Schwarz reference system in order to reproduce your situation and help you optimally trouble-shoot your radio.

Access to software updates and documentation

As a service partner, you will have access to the latest software updates for your test system.

Recalibration services

This covers the calibration costs of all measuring instruments and accessories according to the requirements defined in the system documentation.

Repair services

This covers all repair costs (time and material costs) plus the cost of domestic shipping through Rohde&Schwarz logistics partners.

We would be happy to work with you to develop a customized solution that ideally meets your need. Simply contact us.

From pre-sale to service. At your doorstep.

The Rohde & Schwarz network in over 70 countries ensures optimum on-site support by highly qualified experts. User risks are reduced to a minimum at all stages of the project:

- Solution finding/purchase
- Technical startup/application development/integration
- Training
- Operation/calibration/repair



Service that adds value

- Uncompromising quality
- Long-term dependability

Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, monitoring and network testing. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

Sustainable product design

- Environmental compatibility and eco-footprint
- Energy efficiency and low emissions
- Longevity and optimized total cost of ownership

Certified Quality Management ISO 9001

Certified Quality Management AQAP-2110

Certified Environmental Management ISO 14001

Certified Quality Management

EN 9100

Rohde & Schwarz GmbH & Co. KG

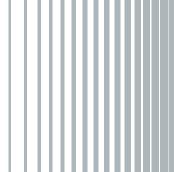
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PD 5215.4052.12 | Version 01.01 | January 2018 (GK)

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