# R&S®EMC32-K21 Application Interface Automation of additional measurement tasks

Development labs often have to carry out measurements in addition to the actual EMC measurements.

In most cases the T&M equipment necessary for these measurements is already integrated in the EMC test system. The R&S®EMC32-K21 software option makes it possible to automate these measurements with little effort, increasing the efficiency and reproducibility of the test run.







## R&S®EMC32-K21 Application Interface At a glance

```
Step Type GPIB CMD

Description Query data from a GPIB device

Parameters for GPIB Command

GPIB Board GPIBO Primary Address 21

Subsystem (only for CMU)

Command 1DN2

Substitute placeholder %%% with return value from step

Command is a query

Characters from result to cut off

Left of result 0

Right of result 10

Return value type NONE

QK

Cancel
```

## Consistent operation and management of test templates

The integration of the application interface into the R&S°EMC32 environment ensures consistent operation for managing the test templates, the test run and the test results in the EUT-specific data structure.

As a result, the performance and documentation of these supplementary test sequences can also be standardized.

### Intuitive macro language for test sequence control

For the creation of program sequences, the software option contains everything that is needed for performing these routine measurements:

- Communications via the GPIB bus for remote-controlling measuring equipment and for the R&S®CMU200 communications analyzer with its dynamic address management
- Interactive user dialogs
- Conditions and loops for sequence control
- Mathematical operations
- Call of subprograms

Easy-to-program macro language.

Flexible driving of GPIB bus devices.

### Easy integration into the test sequence

The created test macros are available as test templates in the R&S®EMC32 file structure, allowing these tests to be performed analogously to the EMC measurements. The R&S®EMC32-K11 option (EMC test sequencer) makes it possible to perform tests also together with EMC measurements.

### Versatile use

The macro language allows a wide range of use in electrical engineering. Typical applications include the following:

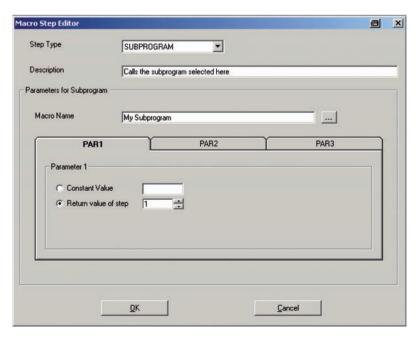
- Measurement of the band occupancy of Bluetooth® or other wireless communications standards
- Setup of communications
- Monitoring of the transmission signal with a spectrum analyzer in Max Hold mode
- Analysis of the occupied band on the spectrum analyzer

- I Total harmonic distortion (THD) measurements on FM receivers of mobile phones simultaneously with the operation of GSM or UMTS transmitters
- Setup of communications
- Measurement of the audio signal using an audio analyzer
- Measurement of additional EUT and environmental parameters
  - Measurement and documentation of temperature and humidity before, during and after the EMC measurement
- Recording and documentation of the EUT setup, e.g. via barcode
- Monitoring of battery charge status during automotive EMC measurements

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Ordering information		
Designation	Туре	Order No.
Application Interface for general measurement tasks Automation of additional measurement tasks supplementary to EMC measurements	R&S®EMC32-K21	1117.7630.02
To run the R&S°EMC32-K21 software option, the R&S°EMC32-EB basic package for EMI measurements and/or the R&S°EMC32-S basic package for		

EMS measurements is required.



Simplified program structure due to subprograms.

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