

## Digital Radiocommunication Testers CMD 54, CMD 57, CMD 59

**For production, installation and service of GSM 900/1800/1900 base stations**

CMD 57



### Brief description

Digital Radiocommunication Testers CMD 54/57/59 are advanced top-class instruments for measurements on base stations (BTS) and BTS modules.

CMD 54 is designed for measurements in line with:

- GSM 900
- E-GSM
- UIC – European train radiotelephony

CMD 57 additionally covers the following standards:

- GSM 1800
- GSM 1900 optionally

### The key features at a glance

| Characteristic/function                                                                                             | Benefit/application                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Transmitter measurements</b>                                                                                     |                                                                                                                                                                 |
| Dynamic range >72 dB                                                                                                | Checking the power ramps and output spectrum of the BTS transmitter for compliance with the dynamic range specified by GSM                                      |
| Measurement of power ramps                                                                                          | Checking the switching characteristics of the BTS transmitter                                                                                                   |
| Phase and frequency error                                                                                           | Testing the modulation characteristics of the BTS transmitter including statistical function                                                                    |
| Extremely fast measurement of spectrum due to modulation or switching                                               | Detecting interference to the BTS transmitter at adjacent frequencies, due to modulation or switching                                                           |
| <b>Receiver measurements</b>                                                                                        |                                                                                                                                                                 |
| Measurement of bit error rate (BER) via A <sub>bit</sub> /IEEE bus/RS-232-C interface, BTS loopback or CMD loopback | Testing the BTS receiver characteristics by adaptation to specific implementation in the BTS                                                                    |
| Measurement of adjacent timeslot rejection with up to 50 dB higher level                                            | Measuring the automatic gain control (AGC) of the BTS with high level difference between used and adjacent timeslot, simulation of different BTS receive levels |

CMD 59 is designed for measurements exclusively in GSM 1900 band.

#### The main applications are:

- Module testing in production
- Final testing with A<sub>bit</sub> control
- Installation with A<sub>bit</sub> control
- Service with test mobile functionality

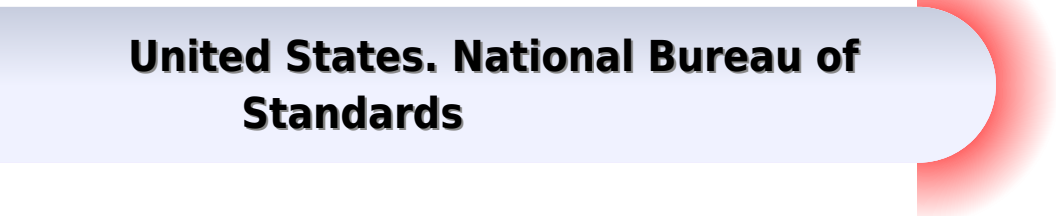
CMD is the first compact radiocommunication tester worldwide allowing measurements on transmitters and receivers of base stations without affecting telephone calls in progress.

These testers combine compact size with high measurement accuracy and speed. They are suitable both for stationary and mobile use and feature great ease of operation and high reliability.

Operation is extremely easy and requires no detailed GSM knowledge. The high-contrast LCD display with softkeys on both sides allows menu-guided convenient callup of test routines.

# Radio Instruments Measurements

**United States. National Bureau of  
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## **Radio Instruments Measurements:**

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**The Theory and Practice of Radio Frequency Measurements** Eric Balliol Moullin,1926 *Oszillographie* Frequenzmessung Schwingungsmessung Elektrotechnik     [Radio Instruments and Measurements](#) US Department of Commerce. National Bureau of Standards,1918     *Radio Instruments and Measurements* Stati Uniti d'America. National bureau of standards,1920

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