

GSM Testers for Rent and Sale



Introduction	2
4202S Mobile Service Tester GSM Module Tester.....	3
4107S Mobil Phone Tester.....	4
Sales and rent information.....	6

Introduction

We would like to be helpful you in the development and testing of your products with our small and portable GSM testers you can measure RMS Phase, Peak Phase, Frequency Error, Burst Length, TX Level, RX Level and Bit Error Rate.

We offer this by renting or selling of GSM testers!

With our devices the following measurements are possible:

RMS Phase

This is the quadratic mean of the phase error of the GSM synchronization signal in degrees. If this value is too high then the GSM module will lose synch and the mobile device will lose the connection to the base station.

Peak Phase

This is the maximum phase error of the GSM synchronization signal in degrees. If this value is too high then the GSM mobile will lose synch and the mobile device will lose the connection to the base station.

Frequency Error

This value specifies the difference in the frequency generators and the target frequency. On GSM 900 the maximum permissible error is ± 115 Hz and on GSM 1800 it is ± 230 Hz. As a percentage it is 0.00013%. If the value is too high the GSM module will use the wrong channel and will lose the connection to the base station.

Burst Length

This is the length of one GSM time slot. The standard length (time) is 543 μ s. The allowed delta is ± 10 μ s which is 1.8%. If the value is too high the GSM module will lose parts of the time slot, voice calls will break up or the connection will be lost.

TX Level

Is the transmitting power level measured in dbm. If the level is too low then the base station will stop receiving a signal and the connection will be disconnected. If it is too high then the receiving signal of the other GSM mobile will break up.

RX Level

This is the received field strength of the GSM module. If it is too low the GSM module will not be able to initiate a call.

Bit Error Rate

This value tells you how many bits the GSM module has received without error. The maximum bit error rate at 104 dBm is 3%. If this value is too high then parts of the communication will be lost or control commands of the base station will be lost and the communications may break up or will be cut off all together.

4202S Mobile Service Tester GSM Module Tester

Highlights of:

- Large dynamic range
- High sensitivity
- The user interface supports English, German, French, Italian, Portuguese and Chinese languages ensuring that it is easy to use wherever it is deployed
- Remote control and built-in AUTOTEST
- GSM 850
- Low Power Consumption
- Data call
- Allows remote operation and management via a standard PC (e.g. Phone Checker software)



Technical Data:

- Supports frequency ranges for GSM, EGSM, GSM 1800 and GSM 1900, testing of dual-band or triple-band phones.
- Power level range 117 to 38 dBm (GSM 900); 117 to 42 dBm (GSM 1800/1900).
- Output level accuracy 0.9 dBm (-110 dBm +38 dbm)
- Measurement accuracy 0.9 dBm.
- High sensitivity in asynchronous mode -40 dBm
- High dynamic range for I/Q alignment > 60 dB.
- Auto test mode for automatic tests of mobile phones, fault find mode for manual analysis of failures and asynchronous mode for repair and alignment of mobile phones.
- Data call (9600 bps in fault find and auto test mode).
- Value adds features: timing advance measurement, test of short message services mobile originated/terminated
- Power Consumption: 17 Watts (100- 250 VAC)

4107S Mobil Phone Tester

Highlights of:

- High sensitivity
- Low Power Consumption
- Provides enhanced specifications: RF power level accuracy < 1 dB
- Supports Dual and triple-band mobile phones on 900/1800 MHz, 900/1900 MHz, 900/1800/1900 MHz
- Delivers intuitive operation and Auto test features to minimize training requirements
- Allows remote operation and management via a standard PC



Technical Data:

- Supports frequency ranges for GSM, GSM 1800 and GSM 1900, testing of dual-band or triple-band phones.
- Power level range -110 to -45 dBm (GSM 900); 110 to -50 dBm (GSM 1800/1900)
- Provides remote control (for PC controlled operation).
- Auto test mode for automatic tests of mobile phones, fault find mode for manual analysis of failures and asynchronous mode for repair and alignment of mobile phones.
- Power Consumption: 15 Watts (100- 250 VAC)

Sales and rent information

Offer to Rent:

5 working days after receipt at the customer free for testing, thereafter €500.00 (or £320) per further 5 working days. (For the return the date of delivery at Round Solutions office is significant)

The customer pays transport for the delivery and for the return with a visa or MasterCard. Only UPS, TNT, FedEx can be used.

Offer to sale:

4202S Mobile Service Tester GSM Module Tester:	€ 8.890,00
4107S Mobile Phone Tester:	€ 4.980,00