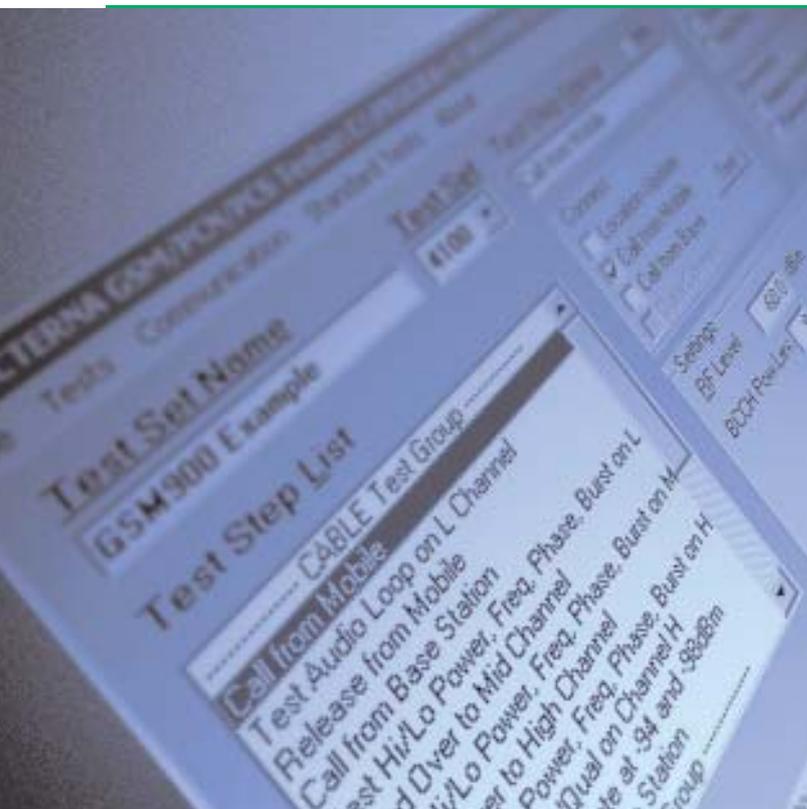


will'tek

# Willtek 4190 Utility Software



Microsoft Windows™ interface: the Utility Software works in the well-known Microsoft Windows™ environment

Programming via mouse: all GSM test programs are completed mainly by a mouse click

Networks: GSM 850, 900, 1800, 1900, 850/900/1800, 850/900/1900, 850/900/1800/1900

Compiler: the compiler of the Utility Software checks if the test sequence is executable

The Willtek 4100/4200 Series of Mobile Service Testers are provided with standard AUTOTEST procedures, which allow basic tests to be carried out on a GSM mobile phone.

The optional Windows™-based Utility Software allows users to create their own AUTOTEST programs for specific needs. The 4100 units can store up to 20 and the 4200 units can store up to 100 user-defined AUTOTESTS. The Software is intuitive and requires no programming skills.

The standard test sequence delivered with the Utility Software can be extended to increase the depth of the test. A compiler checks if the programmed tests are executable. If they are not (for example due to missing information), the program pinpoints and displays where the information is missing, which makes the writing of test sequences even easier.

Each new test has a name assigned to it, and after choosing the system (for example GSM 850, 900, 1800, 1900, dual-band or even triple-band), the routine is made up of choices of signalling, test steps and the connection method (cable, antenna or Universal Antenna Coupler). In each test step the user can choose the measurements to be made. It is also possible to include what needs to be done if a failure occurs, such as repeat the test step, go to the next test step or even go to the end of the test sequence.

The software is flexible enough to allow Pass/Fail limits and waiting loops to be set. The software allows a dialogue with the user while he or she is running tests on the 4100/4200 by means of a question or input box. For example the question box could be used to ask if the voice is looped back correctly during the voice coding test. The user has to check "yes" or "no" and this result is added to the test protocol. A free demo version of the Utility Software can be downloaded from the Internet.

## Specifications

### Programmable features

#### Signalling

Location update  
Call from mobile  
Call from base station  
Release from mobile  
Release from base station  
RF level of tester  
RF power level of MS (BCCH/TCH)  
Channel change (up to three channels per test)  
Signalling delay for channel change

#### Systems supported

850, 900, 1800, 1900, 850/900/1800,  
850/900/1900, 850/900/1800/1900

#### Implemented tests

Power level  
Peak vector error  
RMS vector error  
Frequency error  
Burst length  
RX level  
RX qual  
Power/Time template  
BER/FER (up to eight different levels,  
incl. tolerances)  
Audio loop (incl. notification text  
and PASS/FAIL entry, FR/EFR)  
Entry of test limits for all tests

#### Additional features

Dialogue box (question/input)  
"On-Fail-Goto" function  
Repeat factor

#### Connexion

4100: Requires serial adapter cable  
(RS-232-C cable) or universal adapter cable  
4200: Requires standard serial cable  
(RS-232-C cable)

#### System requirements

PC 486 and above, Windows 3.1x , Windows 95 ,  
Windows 98 or Windows 2000 , 4 MB RAM,  
5 MB hard disk space, mouse serial port, VGA or  
monochrome monitor with a minimum resolution  
of 800 x 600 pixels

#### Serial interface

COM 1 to COM 4, 4800, 9600, 19200, 38400 Baud

## Ordering details

Willtek Utility Software	M 897 110
Willtek 4107 Mobile Service Tester	M 101 207
Willtek 4107S Mobile Service Tester	M 101 217
Willtek 4201S Mobile Service Tester	M 101 301
Willtek 4202S Mobile Service Tester	M 101 302
Willtek 4202R Mobile Service Tester	M 101 308

## Special accessories (extract)

4100 Universal adapter cable for printer + PC	M 384 877
4100 RS-232-C cable (2.5 m)	M 384 875
4200S RS-232-C cable (2.5 m)	M 860 379

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