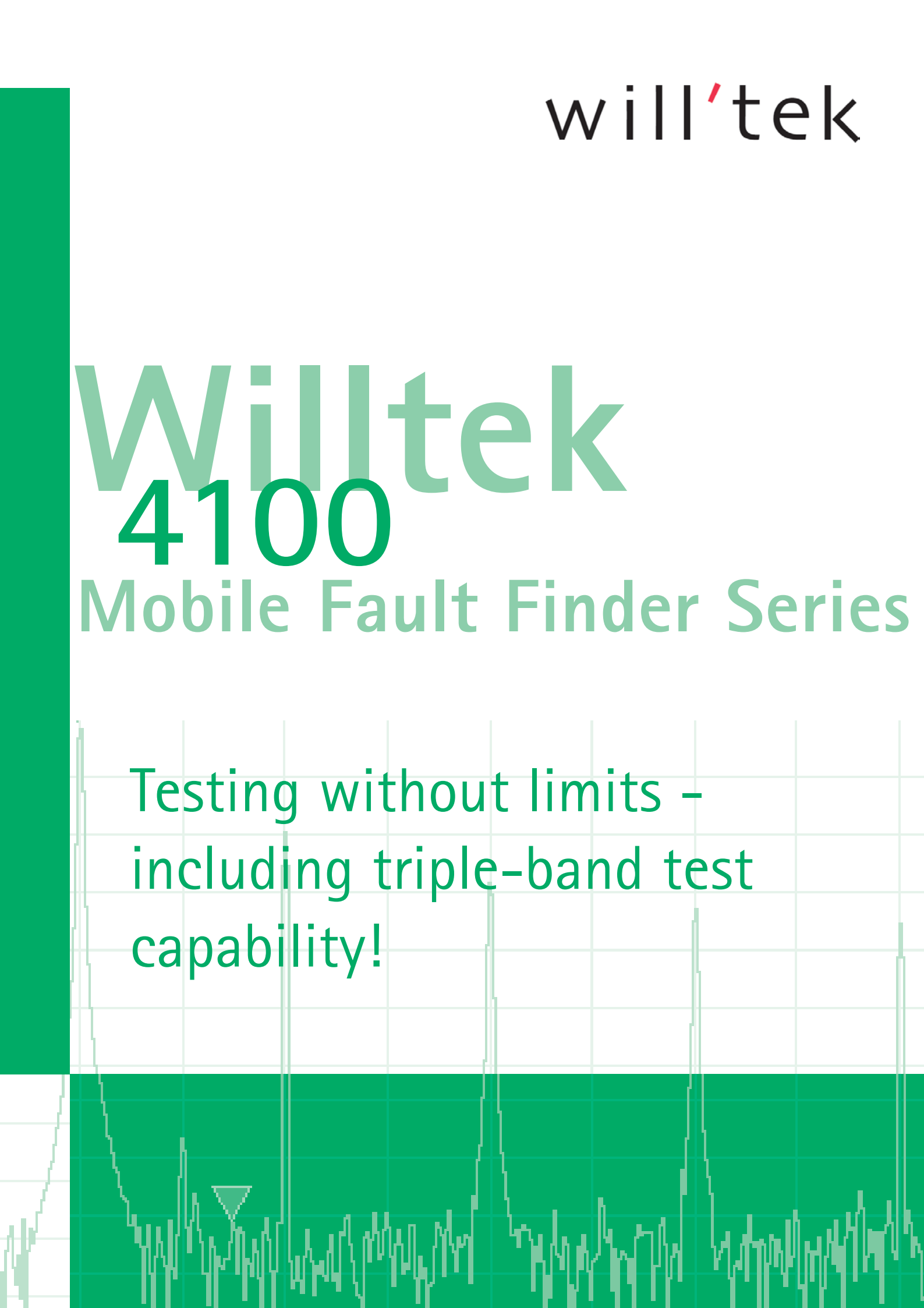


will'tek

Willtek 4100

Mobile Fault Finder Series

Testing without limits -
including triple-band test
capability!



Easy to use

Multiple language user interface in English, German, French and Italian.

Software updates

available on the Internet.

Different models

4107 and 4107S to suit individual user groups.

Low costs

The most cost-effective test solution for GSM mobile phones.

The complete testing solution

The Willtek Mobile Fault Finder 4100 with the Universal Antenna Coupler is a neat and compact solution for testing mobile phones.

Universal and versatile

The right tester for any GSM-based mobile radio system GSM 900, E-GSM, GSM-R, GSM 1800, GSM 1900, from point of return (4100) up to service applications (4100S).

Fast and thorough

You know immediately if the mobile phone is working or defective.

Handy and inexpensive

All products within the Willtek 4100 family fit easily onto any shop counter or workbench.

High precision

High accuracy measurements produce results you can rely on.

Easy software updates

The system firmware can easily be updated via a PC. These updates are available via the Internet.

Dual- and triple-band

The 4107S can support dual- and even triple-band mobile phones on 900/1800, 900/1900 MHz, 900/1800/1900 MHz.

Willtek's 4100 Series offers speed, versatility and precision in a competitively priced handheld tester.

Defective mobile? Find out fast with the Willtek Mobile Fault Finder 4100 family



Point-of-return (POR) testing – stemming the tide

The rapidly increasing number of mobile phones in use, points to large increases in defective mobiles. But up to half of the returned mobile phones are not really defective. They are acceptable, but suffer from network coverage problems or have only simple problems that can be fixed on-site. With only 50 mobiles being falsely returned every month, the purchase of a POR mobile phone tester will pay for itself within three to six months.

Willtek 4100 Series testers put an end to unnecessary returns. Within a minute you can see if a mobile is really defective. Everyone profits – the customer, the dealer, the depot and the factory, with fast, accurate testing at the point of customer contact!

Fast and accurate testing of mobiles at the retail counter enhances customer confidence and loyalty

Point-of-return testing – stemming the tide



When testing mobiles there is nothing more frustrating than inconsistent results. Willtek has achieved a breakthrough in mobile phone testing by using a combination of fast digital signal processors (DSP), high performance VLSI chips, and 35 years of experience in radio testing technology. All models in the Willtek 4100 Series offer the precision of a traditionally expensive radio test set in a handheld unit – all at an exceptional price.

Testing you can trust!

All Willtek 4100(S) testers feature two-stage diagnosis – AUTOTEST and FAULT FIND modes



Stage 1: Go/NoGo test

Stage 2: Troubleshooting

Every member of the Willtek 4100(S) family features two test modes: AUTOTEST and FAULT FIND. To use AUTOTEST, simply connect the phone, choose the mobile type and press ENTER. The 4100(S) automatically tests the mobile and displays a Go/NoGo result. If a defect is found in AUTOTEST, proceed to the troubleshooting capability found in the FAULT FIND mode.

Specific tests can then be run to identify defects. Willtek 4100(S) testers can deliver more than just a visual Go/NoGo conclusion. Precise result logs can be printed and returned with the defective mobile to the service depot to speed up repair.

The optional Windows™ based Utility Software allows users to create their own AUTOTEST programs for specific needs

Willtek Mobile Fault Finder 4100 testers that speak your language

All Willtek 4100S Series testers can communicate with a PC via a serial interface (RS-232-C) and with all printers using the standard Centronics port.

Power is provided from an external AC power pack. Anyone can use this tester with only a few minutes of training. Key features include user prompts on the high-contrast LCD display, one button operation and an integrated HELP function.

Sharing data is easy. You can download the stored test result data to your PC, and use it to help spot trends or share comprehensive test results with distributors or network centres and shops. Whatever your requirement, it's easy to review data within your favorite spread sheet application.

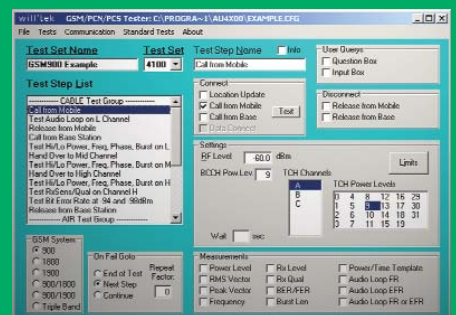
Updating to the latest firmware could not be simpler. You can obtain the latest firmware release via the Internet for free. With the Willtek 4100 you can always count on having the latest software release at your fingertips.

Utility Software adds versatility of test

The standard AUTOTEST procedure allows the basic performance of the phone to be tested. The optional Windows™ based Utility Software allows users to create their own AUTOTEST programs for specific needs. Up to 20 user-defined AUTOTESTS can be stored in your 4100.



The Willtek Web site provides comprehensive customer support



Windows™ based Utility Software

Fiddling about with different cable adapters to connect a mobile phone with test equipment can be very time consuming. Whether in a customer support team, the service workshop or at the mobile phone depot, the Universal Antenna Coupler solution from Willtek is the answer to connection problems when you need to check all the basic GSM measurements.

The testing solution

Universal Antenna Coupler and 4100 Mobile Fault Finder

All mobile phone models can be coupled quickly and reliably – simply place the mobile on the holder of the Universal Antenna Coupler, connect up to the 4100 tester and press AUTOTEST.



Universal Antenna Coupler provides easy RF coupling to today's phones without the need of RF-dedicated RF cable. For attenuation values check www.willtek.com

Wide range of adapters

A wide range of cable adapters for mobile-phones is available from Willtek with solutions for more than 400 different models. The list is always being updated, so please see our Web site for the latest list. Cable connections provide high integrity of power measurements and allow receiver BER testing with confidence.

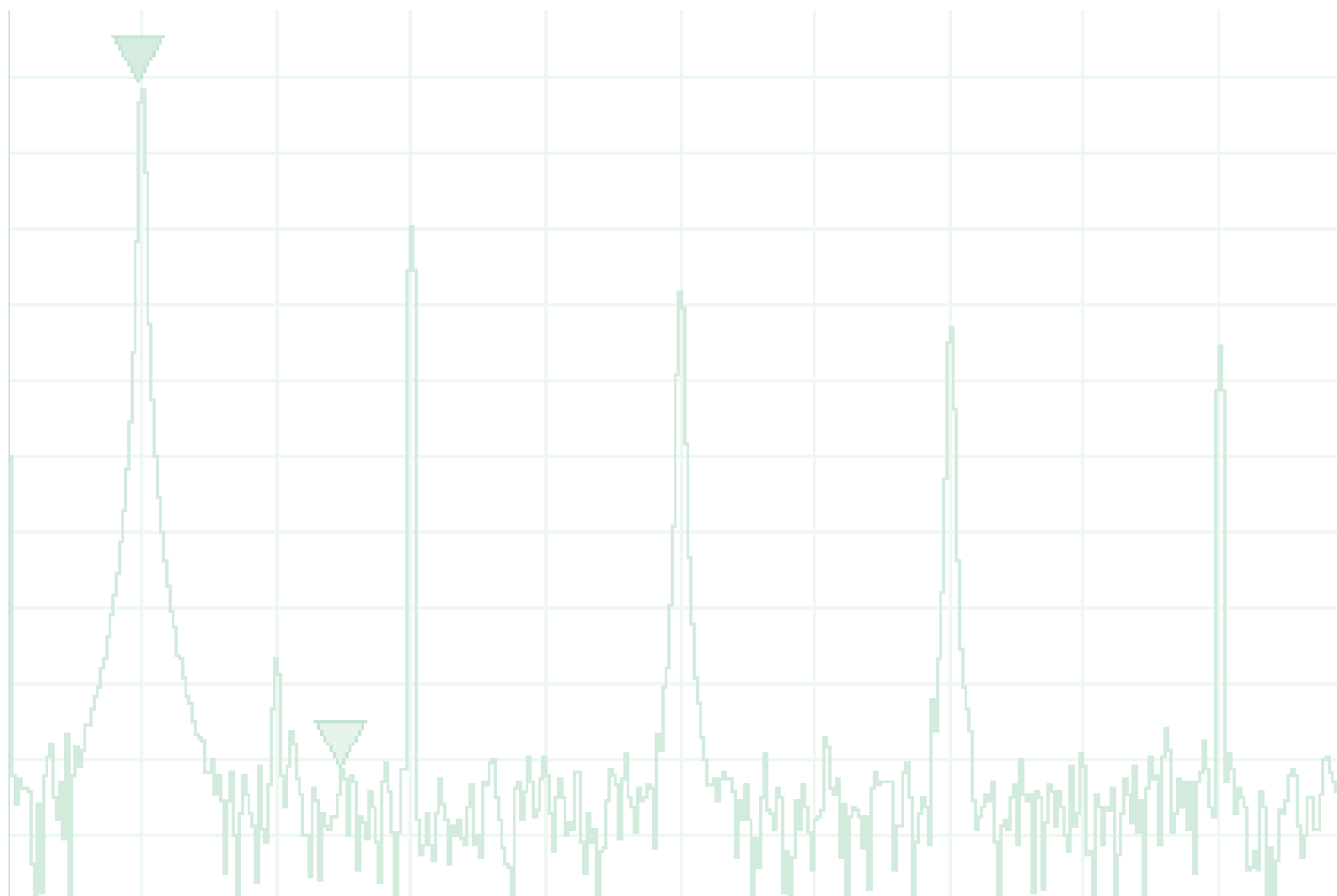
Typical test sequence

1. Place the mobile phone on the Universal Antenna Coupler
2. Press AUTOTEST on the Willtek 4100
3. Choose the mobile phone model on the Willtek 4100 "MSType list"
4. Start AUTOTEST on the Willtek 4100; the mobile phone is automatically tested

The Willtek Web site lists pre-attenuation values for the most popular models of mobile phones. Pre-attenuation values for each mobile phone can be stored in the 4100 with memory space for up to 100 mobile phone types.



Optional RF Shield Box helps to avoid interference from nearby base stations



4107S The tester for low level service

Calibration and repair Economical service testing

Finally there is a mobile phone tester for service that does not take up the whole workbench. The Willtek 4100S offers all the important features needed for service sites and repair depots, for a fraction of the cost of a comparable service tester.

Asynchronous mode for alignment

With the asynchronous mode available in 4107S, the mobile phone operating in a test mode can be tuned or aligned to meet its specifications while it transmits continuously GMSK modulated bursts.

Burst edge failure Indicator

Failures detected in the power/time template can be displayed with the "Burst edge failure indicator". With this feature the errors can be identified during the burst rising, constant power or burst falling time periods.

Remote control increases data handling

With the remote control capability, the Willtek 4100S can be controlled via a PC using SCPI command set. Service sites can carry out trend analysis, warranty claims and/or record statistics for each phone. Programs can be written for the PC, providing customized test routines, which means even more processes can be automated, saving valuable time within a service site.

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