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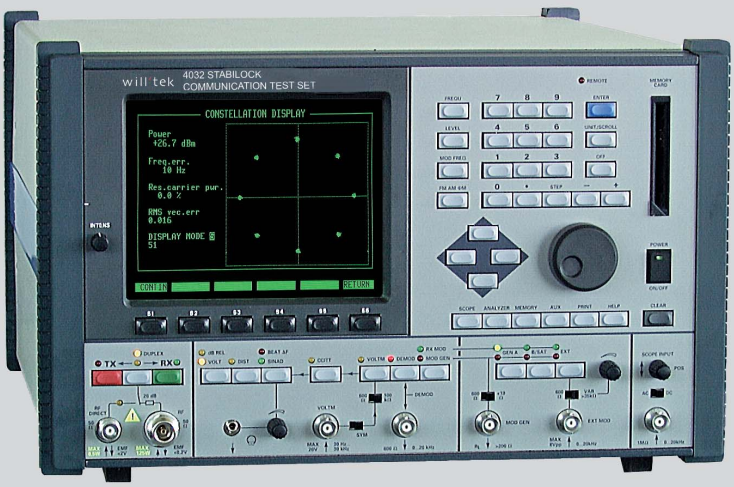
Willtek 4032

STABILOCK® GSM+PCN+PCS



- With Dual-Band Test Capability: 900/1800 and 900/1900 MHz Upgrade available
- Call setup and release, incoming and outgoing, display of call state
- Transmitted power
- Phase and frequency error
- Burst shape and length (comparison with power/time template)
- Graphic display of phase error
- Modulation spectrum
- TX tests on mobiles in test mode (unsynchronised bursts with up to 100 kHz frequency error)
- Bit error rate (BER)
- Receiver sensitivity
- Free selectable network parameters

Testing mobiles of different systems has never been so fast and simple. Fitted with the universal GSM+PCN+PCS Software Option, the STABILOCK 4032 takes less than a minute to put a mobile through a thorough performance test.

Change systems at the press of a key

No more reconfiguring from one system to another. Just hit a key to change between three systems. Service technicians benefit from the universal software option, because they can be confronted with many different types of mobile phones every time. This is where the STABILOCK 4032 really shows its strength. No other communication test set can test digital and analog mobiles without reconfiguration of the hardware.

Fast access to analog systems

You just found that a GSM mobile is okay, and all it takes is a fast change of the software option to put an NMT 450 mobile through its paces a minute later. When test cycles are so fast, there is one feature of all Willtek software options that you really appreciate: the way in which the same clear user interface helps you keep things moving. Once you are familiar with the structure, you are ready to go every time, whether it is a new software option or one you seldom need.

Specifications

Signal generator

Frequency bands	
GSM 900	935 to 960 MHz
E-GSM 900	925 to 935 MHz
GSM 1800	1805 to 1880 MHz
GSM 1900	1930 to 1990 MHz
	plus freely selectable
Channel spacing	200 kHz
Channel numbers	
GSM	1 to 124
E-GSM 900	0, 975 to 1023
GSM 1800	512 to 885
GSM 1900	512 to 810
Output power	
	–130 to –20 dBm on N-connector (RF)
	max 0 dBm on TNC-connector (RF DIR)
Accuracy	
	< ±1.5 dB (> –115 dBm) on N-connector
Resolution	0.1 dB
Modulation	
	Gaussian minimum shift keying (GMSK), B x T = 0.3
Phase error	< 3° rms

Test receiver

Duplex offset	
GSM 900	45 MHz
GSM 1800	95 MHz
GSM 1900	80 MHz
	plus freely selectable
Measurement range	0 to +47 dBm
Accuracy	
Absolute	< ±1.0 dB
Relative	< ±0.35 dB
Resolution	0.1 dB
Power/time template	
Dynamic range	> 40 dB
Accuracy	< ±0.5 dB (typ. < 0.35 dB) for levels > –32 dBc
Zoom display	
	±2 dB display range, flat part of burst

Phase error measurement

Graphic display range	20°
Numeric display min./max./average/current	
Range	0° to 15° rms, 0° to 45° peak
Resolution	0.01°
Accuracy	±0.5° rms for 3° to 10° rms

Frequency error measurement

Range	±100 kHz offset from carrier
Accuracy	
Relative	< 10 Hz (≤ 1 kHz offset from carrier)
	< 100 Hz (≤ 100 kHz offset from carrier)
Absolute	like reference oscillator + relative accuracy
Resolution	1 Hz

Burst duration measurement

Resolution	1 µs
Accuracy	< ±4 µs
Edge testpoint	–6 dBc (relative to burst power)

Modulation spectrum

(current / peakhold / average)	
Graphic display range	80 dB
Resolution bandwidth	±4 kHz
Numeric display in dBc	
0, ±100, ±200, ±250 kHz offset from carrier	

Ordering information

STABILOCK 4032	M 108 802
GSM Module	M 248 274
2.3 GHz RF Frequency Extension	M 248 295
GSM/PCN/PCS Package	M 248 297
GSM/DCS 1800/1900 Software	M 897 912
Ericsson GSM MS Test AUTORUN	M 897 943
GSM BS Test Software	M 897 076

Note: Specifications, terms and conditions are subject to change without prior notice.

Willtek Communications GmbH
85737 Ismaning
Germany
Tel: +49 (0) 89 996 41-0
Fax: +49 (0) 89 996 41-440
info@willtek.com

Willtek Communications UK
Cheadle Hulme
United Kingdom
Tel: +44 (0) 161 486 3353
Fax: +44 (0) 161 486 3354
willtek.uk@willtek.com

Willtek Communications SARL
Roissy
France
Tel: +33 (0) 1 72 02 30 30
Fax: +33 (0) 1 49 38 01 06
willtek.fr@willtek.com

Willtek Communications Inc.
Parsippany
USA
Tel: +1 973 386 9696
Fax: +1 973 386 9191
willtek.cala@willtek.com
sales.us@willtek.com

Willtek Communications
Singapore
Asia Pacific
Tel: +65 943 63 766
willtek.ap@willtek.com

Willtek Communications Ltd.
Shanghai
China
Tel: +86 21 5835 8039
Fax: +86 21 5835 5238
willtek.cn@willtek.com

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