



Acterna STABLOCK[®] 4032

GSM+PCN+PCS

Testing mobiles of different systems has never been so fast and simple. Fitted with the universal GSM+PCN+PCS Software Option, the STABLOCK 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 STABLOCK 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 Acterna 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.

Highlights

- 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 (unsynchronized bursts with up to 100 kHz frequency error)
- Bit error rate (BER)
- Receiver sensitivity
- Free selectable network parameters

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

Order Numbers

STABLOCK 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



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