



A complete low-cost go/no-go test solution for GSM mobile service repair

Ease of Use

- Intuitive user interface and PC card reader makes loading test parameters and upgrading instruments simple.
- Increase ease of use with the Windows®-based software in conjunction with the GSM mobile test station.
- Customize and automate entire go/no-go test sequences making verification and troubleshooting simple.

Performance

- Reduce the number of "no-trouble-found" phones with comprehensive testing and troubleshooting.
- Tx/Rx, spectrum, power, and dc current measurements quickly locate faults, and at the same time, powers the phone through the built-in dc power supply.
- Accurate, reliable troubleshooting with ± 0.6 dB peak power measurement accuracy and in-band spectrum measurements.
- Automatically create a database for trend analysis on phone failures and identification of network trouble spots.

Great Price!

- A module-level MS tester for a go/no-go price!

HP E6392A GSM Mobile Station Test Set and HP E8292A GSM PoST Software



HP E6392A GSM Mobile Station Test Set

HP E8292A GSM PoST Software

Economical GSM test set allows service technicians to do module-level repair at local mobile-phone repair shops

To help service technicians cope with the growing number of mobile phones coming into repair shops, the HP E6392A GSM mobile station test set provides module-level repair capability for the price of an entry-level go/no-go tester.

With this new HP test set, GSM network operators and mobile phone repair organizations can increase the repair capability and effectiveness of their entire service network. They can also reduce the number of “no-trouble-found” phones.

The HP E6392A offers comprehensive, automatic GSM power, frequency, and sensitivity, measurements via call processing to speed incoming inspection of mobile phones. With full test capabilities for GSM900, E-GSM, and DCS1800, technicians can check most GSM phones with this single instrument;

troubleshoot a problem to the mechanical or module level and make necessary module replacements.

Measurement tools include a direct current (dc) power consumption check, spectrum monitoring capability, and transmitter and receiver tests.

Software for automated test

The HP E8292A GSM Point-of-Service Test (PoST) software is Windows®-based with on-screen graphics allowing fast, accurate measurement of GSM mobile phones with minimal training.

The software's development mode has a full set of capabilities to create customized tests for different phone models. Test plans, as well as test specifications and parameters, can all be set up and modified with ease.

Its easy-to-use interface provides detailed, accurate performance data that can be exported into popular PC database and spreadsheet formats for use in trend analysis. Common phone-type failures, locations of dropped calls, and extent of failure can all be exposed .

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Specifications Summary

RF Signal Generator

Frequency Range: 935 MHz to 960 MHz (GSM downlink)
925 MHz to 960 MHz (E-GSM downlink)
1805 MHz to 1880 MHz (DCS1800 downlink)

Frequency Resolution: 200 kHz, at channel frequency

Frequency Accuracy: same as reference

Output Level Range: -110 dBm to -50 dBm

Output Level Accuracy: ± 1.0 dB

Modulation: 0.3 GMSK

Phase Error: $< 5^\circ$ rms typical

Peak Phase Error: $< 15^\circ$ peak typical

RF Analyzer

Frequency Range: 890 MHz to 915 MHz (GSM uplink)
880 MHz to 915 MHz (E-GSM uplink)
1710 MHz to 1785 MHz (DCS1800 uplink)

Transmitter Carrier Peak Power Measurement

Range: -20 dBm to +39 dBm (0.3 GMSK at burst/continuous or CW)

Accuracy:

± 1.0 dB (± 0.6 dB typical at $25^\circ\text{C} \pm 5^\circ\text{C}$) at ≥ 0 dBm

± 2.0 dB (± 1.6 dB typical at $25^\circ\text{C} \pm 5^\circ\text{C}$) at < 0 dBm

Resolution: 0.2 dB

Power Ramp Measurement

Range: -11 dBm to +39 dBm (0.3 GMSK at burst)

Accuracy:

± 0.6 dB typical at $25^\circ\text{C} \pm 5^\circ\text{C}$ at ≥ 0 dBm

± 1.6 dB typical at $25^\circ\text{C} \pm 5^\circ\text{C}$ at < 0 dBm

Resolution: 0.2 dB

Dynamic Range: ≥ 40 dB typical

Phase and Frequency Error Measurement

Input Level Range: -11 dBm to +39 dBm

Input Phase Error Range: 0° to 20° (0.3 GMSK at burst)

Phase Error Measurement Accuracy:

$\leq 1.5^\circ$ rms at phase error $\geq 2.5^\circ$

$\leq 6.0^\circ$ peak at phase error $\geq 2.5^\circ$

Frequency Error Measurement Range: ± 9 kHz (0.3 GMSK at burst/continuous or CW)

Frequency Error Measurement Accuracy

(Average of 10 measurements):

$\pm (10$ Hz plus frequency reference accuracy) at GSM/EGSM

$\pm (25$ Hz plus frequency reference accuracy) at DCS1800

DC Power Supply

Range: 3 Vdc to 9 Vdc

Resolution: 0.1 V

Accuracy: 0.1 V at 100 mA load

Maximum Current: 1 A, peak 2 A

Ripple Noise: 100 mV p-p typical

DC Current Measurement

Range: 3 mA to 1000 mA

Accuracy: $\pm (3$ mA +2%)

General Specifications

Size: 350 mm (W) \times 150 mm (H) \times 350 mm (D)

Weight: 10 kg

Power Voltage: 88 V to 264 V

Power Frequency: 47 Hz to 63 Hz

Power Consumption: ≤ 135 VA

For more information visit:

www.hp.com/go/wireless

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Technical data subject to change
Printed in U.S.A. 10/99
5968-6894E