



Fast-Installation-Tester FOR MOBILE , (FIT Set for GSM 900, DCS, PCS, UMTS).

- ◆ **RF-heads (through line) for
400... 1000 MHz and 1700 ... 2500 MHz**
- ◆ **Measuring the forward and the
reverse power**
- ◆ **VSWR-measurement**
- ◆ **Measuring cw or bursts**
- ◆ **Storing min./max.-results**
- ◆ **Measuring the radiated RF-power**
- ◆ **Fast DC-Voltmeter**
- ◆ **Ohmmeter for fault location**

The Fast-Installation-Tester Set for GSM 900, DCS, PCS and UMTS contains in a useful transportation box all test-instruments that are required to check mobile telephones and base stations.

Besides the basic instrument of the Fast-Installations-Tester FIT the transportation box contains two RF-heads (through line) . A set of RF-adapters, test leads and alligator clips for the DC- and resistance-measurements guarantee a good interconnection between the test equipment and the device under test.

The FIT Set for GSM 900,DCS, PCS and UMTS has been designed especially for the testing of radio telephones and base stations.

The RF-heads (through line) measure in their frequency range the forward power of the transmitter and the reverse power. For the measurements, the Rf-heads are inserted between the mobile and the antenna cable of any base station.

The power is displayed in Watt or dBm (as selected by the user). Instead of the reverse power the VSWR may be displayed.

By the possibility of storing maximum and minimum results, short-term failures can be proofed too.

A read LED is activated in case of dc shortcircuit. The activated LED indicates a possible short-circuit, without changing the results of the power and VSWR-measurement.

The Handy-RF-heads are besides testing (handy's /base station) a useful tool to measure the radiated power of mobiles, that are installed in a car or base stations in the field.

By comparison of the power that is radiated by the power and the power generated by the transmitter, unacceptable high losses on the interconnection between mobile, antenna and base station can be detected.

The basic instrument contains a DVM and a Ohmmeter-function too. The DVM is using an A/D converter, which is so fast, that even changes of the supply voltage during the emitted rf-bursts are measured, displayed and stored. This measurement is executed with the use of storage function of the maximum and minimum results. The stored results are only replaced by values, that exceed the stored values.DC-resistance is measured in the function "Ohmmeter".

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Priliminary Specifications: FIT Set for GSM 900, DCS, PCS, UMTS

RF-head (through line) GSM 900:

Frequency range: 400 MHz ... 1000 MHz
RF-power measurement (cw or bursts):
Measuring range: 20 mW ... 50 W
Resolution: 0,1 dB

Accuracy (P = 1 W): $\leq \pm 1,0$ dB
Power offset-setting (0,1 dB steps): $\pm 12,7$ dB
Display: numeric in Watt or dBm, min./max.

VSWR-Measurement:

Measuring range: 1,2 ... 10; > 10
Resolution VSWR 1,0 ... 3,0: 0,1
VSWR 3,0 ... 5,0: 0,2
VSWR 5,0 10: 0,5

Display: numeric, min./max.; bargraph

Indication of antenna short-circuit: red LED

Display: 2-line LCD with backlight
Power requirements: ... 4 x Mignon-batteries 1.5 V, size AA
or 4 x rechargeable accus 1,2V, size AA

Connectors: N-female at the RF-head, safety sockets
for 4 mm banana plugs for V=, Ω , GND

Power consumption (without backlight): ≤ 95 mA
Operating temperature: $+ 5$ °C ... $+ 45$ °C
Electrical safety: EN 61010
EMV: CE-mark
Dimensions basic instrument: .. 197 mm x 97 mm x 40 mm
Dimensions Rf-heads (through line):
GSM 900: ... 120 mm x 75 mm x 30 mm
UMTS 2500: 120 mm x 75 mm x 30 mm
Transportation box: 440 mm x 350 mm x 200 mm
Weight basic instrument (incl. Batteries): .. approx. 0,55 kg

weight Rf-heads (through line)

GSM 900: approx. 0,6 kg
UMTS 2500: approx. 0,6 kg

F-head (through line) for UMTS:

Frequency range: 1700 MHz ... 2500 MHz
RF-power measurement (cw or bursts):
Measuring range: 5 mW ... 50 W
FIT Set complete: approx. 5,0 kg
GSM 900: approx. 0,3 kg
UMTS: approx. 0,3 kg

Resolution: 0,1 dB
Accuracy (P = 1 W): $\leq \pm 2,0$ dB
Power offset-setting (0,1 dB steps): $\pm 12,7$ dB
Display: numeric in Watt or dBm; bargraph

VSWR-Measurement:

Measuring range: 1,2 ... 10; > 10
Resolution VSWR 1,0 ... 3,0: 0,1
VSWR 3,0 ... 5,0: 0,2
VSWR 5,0 10: 0,5

Display: numeric, min./max.; bargraph

Indication of antenna short-circuit: red LED

Basic instrument:

DC Voltmeter:

Measuring range: 0 ... 30 V
Resolution: 30 mV
Display: numeric, min./max.; bargraph

Ohmmeter

Measuring range: $0,3 \Omega$... $1 \text{ k}\Omega$
Resolution: $0,1 \Omega/1 \Omega$
Display: numeric, bargraph
Beeper: active $\leq 8 \Omega$

weight Handy- Rf-heads

Ordering information:

Fast-Installations-Tester:
FIT Set for GSM 900, DCS, PCS
and UMTS BN: 86820.005

Options:

RS-232 Interface BN: 86820.101

Supplied accessories for UMTS Base-Stations and GSM 900 and DCS 1800

Basic instrument, 2 Rf-heads (through line), Set of RF-Adapters (BNC, TNC, Mini-UHF, Mini-Crimp, WICLIC, FAKRA), 2 connectors N male / 7/16 male/female, test leads, 2 crocodile clips, 1 manual, 1 Transportation box for the FIT-Set.

