

## Fast-Installations-Tester FIT GSM 900

- ◆ RF-head (through line) for power and VSWR from 400 MHz to 1000 MHz
- ◆ Forward and reverse power
- ◆ Accurate VSWR
- ◆ Measurement of CW power or bursts
- ◆ Storage of min./ max. values
- ◆ Red LED for antenna short-circuits
- ◆ RF-head (emitted RF power) for the GSM band from 890 MHz to 915 MHz
- ◆ Measurement of emitted power via built-in antenna
- ◆ Power offset-setting in 0.1 dB steps
- ◆ Fast converting DC voltmeter
- ◆ Ohmmeter for fault finding



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The Fast-Installations-Tester Set for GSM 900 is an application-oriented tester which has been selected for the GSM 900 mobile network specially. The FIT basic instrument, the through line RF-head, the second RF-head with integrated antenna and extensive supplied accessories are fitted in a suitable transportation box.

The FIT Set for GSM 900 is a hand-held, low-cost service-tester and a Point-of-Sale tester for mobile phones which allows fast Go/NoGo decisions at the first level of diagnosis before they are returned to the manufacturer's maintenance center. The set reduces down times, handling costs and ensures that defective units will just be returned. The operation is such as simple that everybody can use the FIT testers after a few minutes of training.

The through line RF-head is inserted without long interconnection cables between the transmitter output of the mobile radio and the antenna cable, thus avoiding additional measuring errors. Now just read-off the forward & reverse RF power in Watt or dBm and the VSWR from the high-contrast LCD. These are useful parameters to check the quality of the systems components and the installation. The storage of max. and min. values permits the detection of intermittent faults, for example during engine start. In case of a short-circuit in the antenna or in the antenna cable, a red LED on the RF-head gives a warning.

The RF-head for GSM 900 measures the emitted RF power of cellular mobile phones from 890 MHz to 915 MHz via an integrated antenna in a defined 7 cm distance. This simple measurement allows to check very quickly the basic function of cellular mobile phones - transmitted RF power.

The FIT basic instrument has a built-in, fast converting DC voltmeter with minimum- and maximum-storage and a ohmmeter. There is no need for any extra instrument to locate further malfunctions in vehicle's electrical system or in car installation kits.

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## Specifications FIT Handy-Tester

### RF-head for GSM/DCS 1800:

Frequency range: ..... 1710 MHz ... 1780 MHz  
RF power measurement (CW or bursts):  
Measuring range: ..... 2 mW ... 2 W  
Resolution: ..... 0.1 dB  
Accuracy (P = 1 W): .....  $\leq \pm 2.0$  dB  
in 7 cm distance to a  $\lambda/4$  reference antenna  
RX-antenna: ..... planar-antenna  
Power offset-setting (in 0.1 dB steps): .....  $\pm 12.7$  dB  
Display: ..... numeric in Watt or dBm, bargraph

### Voltage measurement:

DC measuring range: ..... 0 ... 30 V  
Resolution: ..... 30 mV  
Display: ..... numeric, min./max., bargraph

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### Resistance measurement:

Measuring range: ..... 0.3  $\Omega$  ... 1 k $\Omega$   
Resolution: ..... 0.1  $\Omega/1$   $\Omega$   
Display: ..... numeric, bargraph  
Beeper: ..... active  $\leq 8$   $\Omega$

### General data:

Connectors: ..... safety sockets for 4 mm banana plugs  
for DC,  $\Omega$ , GND  
Display: ..... 2-line LCD with backlight  
Power requirements: 4 x Mignon batteries 1.5 V, size AA  
or 4x rechargeable accus 1.5 V, size AA  
Power consumption (without backlight): .....  $\leq 95$  mA  
Operating temperature: ..... + 5 °C ... + 45 °C  
Electrical safety: ..... EN 61010  
EMC: ..... CE-mark  
Dimensions: Basic instrument: 197 mm x 97 mm x 40 mm  
RF-heads: 83 mm x 97 mm x 40 mm  
Weight: ..... Basic instrument incl. batt.: ... approx. 0.55 kg  
RF-heads: ... approx. 0.30 kg  
Supplied accessories: .Basic instrum., RF-head for GSM  
900, RF-head for GSM 1800, manual, 2 distance pieces  
Ordering information:  
FIT Handy-Tester ..... BN 86816.000  
Accessories:  
Transportation box for basic instrument, .... BN 86816.101  
two RF-heads, distance pieces and manual

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