

RF installation testers FIT

RF installation testers FIT (series)



- Instruments for: 70 MHz ... 1000 MHz
400 MHz ... 1000 MHz
1700 MHz ... 2000 MHz
1700 MHz ... 2000 MHz
- Measurement of cont. power or bursts
- Storage of min./max. values
- Measurement of output power and reflected power
- GSM 900/1800/UMTS
- Short-circuit indication with red LED
- GSM 900/1800/UMTS
- VSWR measurement
- Measurement of the radiated power
GSM 900 and GSM 1800 with the FIT set
- Fast DC voltmeter for the detection of short voltage dips
- Ohmmeter for troubleshooting

Schomandl Distributor:



MCS Test Equipment Ltd
Unit 5-6 Station Yard,
Llanrwst, Conwy,
North Wales,
LL26 0EH

Tel: 08453 62 63 65
Fax: 08453 62 36 16

Email: sales@mcs-testequipment.co.uk
Web: www.mcs-testequipment.co.uk

The RF installation testers FIT (series) for the various frequency ranges are economical instruments for locating problems in RF systems. Any faults are quickly rectified after locating.

All instruments are suitable for measurements on analogue and digital RF systems. Which device is suitable depends on the area in which the user works. The RF installation testers FIT (series) comprise a base unit and a remote measuring probe. The measuring probe is inserted directly between the RF equipment and the antenna cable.

The feature for saving maximum and minimum values enables intermittent problems to be detected.

RF workshops that support not just mobile telephones but also mobile radios and B.O.S. radios (German emergency services) require the FIT 70, which covers the frequency range from 70 MHz to 1000 MHz. The RF installation tester FIT 400 is the optimal instrument for usage from 400 MHz (70-cm mobile radio, trunked mobile radio, GSM 900 network).

The FIT 1700 is used for radios in the frequency range 1700 MHz to 2000 MHz (e.g. DCS 1800).

The RF installation testers FIT (series) measure the power output by the transmitter and the power reflected. The power can be indicated in either Watt or dBm. Instead of reflected power, it is also possible to display the VSWR. During measurements with the FIT 1700 on installations with longer antenna cables, it is recommended to measure at two points: At the radio's output and directly at the base of the antenna. Measurement errors caused by these high frequencies due to cable attenuation and impedance transformation can then be avoided.

The FIT sets are each supplied with one measuring probe for the related telephone network GSM 1800 or GSM 900 and DCS 1800. The radiation emitted by the mobile phone's transmitter antenna is measured at a defined distance (7 cm). To check this distance, appropriate templates are included in the items supplied. The FIT with the power radiated from the antenna is a valuable aid for checking mobile phones that are installed in vehicles. The power radiated by the antenna can be compared with the power output by the transmitter. In this way, excessively high losses in the pane of glass used for bonded antennas can be demonstrated.

All models include a digital voltmeter with a conversion time so short that even dips in the supply voltage during the transmitted pulses can be detected. The maximum and minimum values that occur during the measurement are saved.