

Technical data

RF generator

Frequency spectrum	925 to 960 MHz (GSM 900) 1805 to 1880 MHz (GSM 1800) 1930 to 1990 MHz (GSM 1900)
Generator output level (4105 ¹ /4107 ^{light} /4107 models)	GSM 900: -45 to -110 dBm (± 1.5 dB) GSM 1800/1900: -50 to -110 dBm (± 1.5 dB)
Generator output level (4107S model)	GSM 900: -45 to -110 dBm (± 1.0 dB) GSM 1800/1900: -50 to -110 dBm (± 1.0 dB)
Generator frequency error	1 ppm

TX measurement

Frequency spectrum	880 to 915 MHz 1710 to 1785 MHz 1850 to 1910 MHz
Frequency error measurement ²	within 5 kHz offset from carrier GSM 900: ± 25 Hz GSM 1800/1900: ± 50 Hz
RF power measurement (burst)	+39 to -20 dBm (± 1.5 dB) usable up to +45 dBm
Phase error measurement ²	within measurement range 1.5 to 20° rms GSM 900: $\pm 1.5^\circ$ rms GSM 1800/1900: $\pm 2.5^\circ$ rms ($\pm 2.0^\circ$ rms 4107S model)

¹) GSM 1900 only
²) Average of 10 measurements

General data

Size	250 mm x 110 mm x 95 mm
Weight	1.5 kg
Permitted storage temperature	-30 °C to +50 °C
Working temperature	+15 °C to +35 °C

Handling Avoid the following during operation and storage:

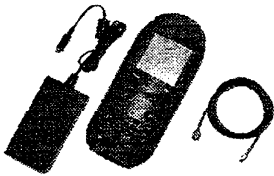
- strong direct sunlight
- vibrations, heavy impacts
- ingress of liquids or small objects into the device
- bending of the RF adapter cable
- contamination of the electrical contacts

After unpacking

- Do not throw the packaging of your **WAVETEK 4100** away. It will make shipment easier if you want to have your model upgraded later (see also page 6-22).

- Check that the delivery is complete:

Standard items supplied



101 2XX	1 x WAVETEK 410X
860 179	1 x Test SIM, plug-in format
860 175	1 x SIM adapter (from plug-in to full-size format)
290 012	1 x User Guide
860 090	1 x Power supply unit with power cord and connecting cable
860 409	1 x RF adapter cable

Options/extra accessories For a list of useful options and extra accessories refer to Chapter 6.

- Check that the unit is undamaged:



Do not attempt to operate a **WAVETEK 4100** if there is obvious damage to the device, the power supply unit or the accessories. Retain the packaging and contact the office who supplied the equipment.

Accessories and options

■ Standard accessories

Order number	Description
860 179	Test SIM, plug-in format
860 175	SIM adapter from plug-in to full-size format
860 090	Power supply unit with power cord and connecting cable for WAVETEK 4100
860 409	RF adapter cable (1.5 m) <i>Purpose: connecting cable between any RF adapter (extra accessory) and a WAVETEK 4100</i>
290 012	User Guide

■ Extra accessories

860 XXX	RF adapters for different mobile phones (see page 6-36)
248 330	Universal Antenna Coupler (see page 2-18)
860 261	Antenna, 900 MHz
860 262	Antenna, 1.8/1.9 GHz <i>Purpose: wireless testing of mobile phones</i>
384 876	Centronics adapter cable (2.5 m) <i>Purpose: attaching a printer with a Centronics interface to a WAVETEK 4100</i>
384 875	Serial adapter cable (D-Sub 9; 2.5 m) <i>Purpose: attaching a PC with an RS-232-C port to a WAVETEK 4100</i>
384 877	Universal adapter cable (RS-232-C/Centronics) <i>Purpose: attaching a WAVETEK 4100 to the serial port of a PC and to a printer (parallel port)</i>
860 252	Carrying case
860 251	Shoulder bag

■ **Options**

- 897 110 Utility Software plus User Guide
Purpose: menu-driven creation of user-defined AUTOTESTs with individual selection of the range of testing of the limits for PASS/FAIL assessment
- 897 12X Upgrade to **WAVETEK** 4107 model (see page 6-22)
- 897 12X Upgrade to **WAVETEK** 4107S model (see page 6-22)