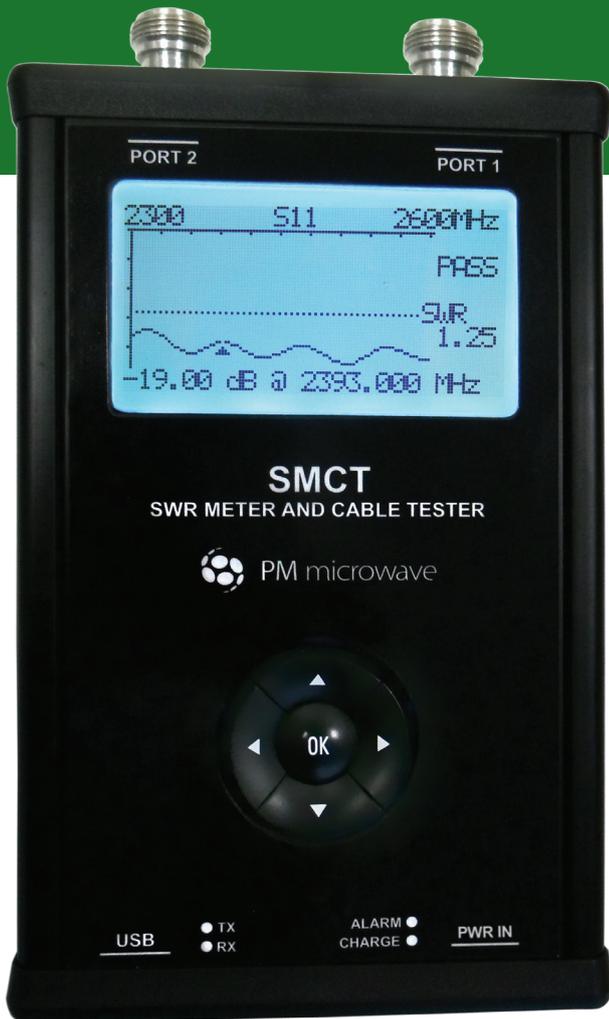


# SMCT

## SWR METER AND CABLE TESTER



### Applications

- ▶ Characterization of 1-port and 2-port RF networks
- ▶ On-site measurements
- ▶ Verification of electrical installations
- ▶ Suitable for tests in the GSM, GSM-R, GPS, UMTS, LTE and ISM bands

The SWR Meter and Cable Tester is a compact handheld product that performs 1-port (Return Loss & SWR, Cable Loss) and 2-port (Insertion Loss) measurements.

A large LCD display shows the revealed traces along with markers, thresholds and PASS/FAIL indicators. The measured data and the calibration files can be stored into the internal memory.

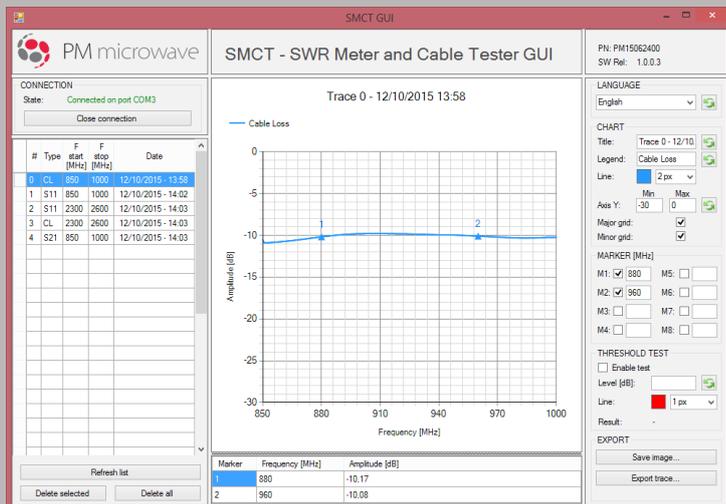
The SMCT represents the ideal solution for on-site measurements and verifications of electrical installations, for example on board of trains. It is suitable to test devices and systems in the GSM, GSM-R, GPS, UMTS, LTE and ISM bands.

The Cable Loss measure is intended for cables whose one end is not easily accessible; the Insertion Loss should instead be chosen when higher dynamic range or higher accuracy are preferable.

The device is powered with an internal Li-Ion battery. It is provided with a hard transit case that includes all the necessary accessories.

The given interface software (SMCT GUI) allows downloading data on a PC (through a USB connection), managing and analyzing it in detail, and exporting traces in numerical or graphical formats.

The SMCT GUI is able to automatically connect and download the measured files. Simple menus allow managing and displaying traces, showing markers and thresholds, and exporting data or images.



The hard transit case protects the SMCT and its accessories, i. e., the calibration kit, the battery charger, a USB cable and key (with SMCT GUI software).

### TECHNICAL SPECIFICATIONS\*

\*specifications may be changed in accordance with the technical department

#### PORT 1

Return Loss (S11) dynamic range	0 ÷ -25 dB
Return Loss (S11) accuracy	±10%
Cable loss dynamic range	0 ÷ -12 dB
Cable loss accuracy	±10%

#### PORTS 1-2

Insertion Loss (S21) dynamic range	0 ÷ -50 dB
Insertion Loss (S21) accuracy	±0.5 dB typ.

#### SWEEP GENERATOR

Frequency range	100 ÷ 3000 MHz
Output RF level	-10 dBm typ.
Frequency stability	±2.5 ppm

#### GENERAL

No. of points	501
Frequency resolution	≤50 kHz
Local control	LCD display (128 x 64 pixel) with backlight + navigation keys

#### User functions

Marker-to-frequency  
Thresholds with PASS/FAIL indicators

#### Internal memory

Up to 30 measure files  
Up to 10 calibration files

#### Remote control

RF connectors

#### Power supply

Battery duration

Operating temperature

Storage temperature

Storage relative humidity

Dimensions

Material

Weight

Protection degree

#### HARD TRANSIT CASE

Dimensions

Material

Accessories included

Protection degree

Marker-to-frequency	Thresholds with PASS/FAIL indicators
Up to 30 measure files	Up to 10 calibration files
USB interface	2 x N female 50 Ω
Internal Li-Ion battery	5 h min.
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	106 x 180 x 56 mm
Material	Aluminium
Weight	0.9 kg
Protection degree	IP40

Dimensions	336 x 300 x 148 mm
Material	Polypropylene copolymer
Accessories included	Calibration kit + battery charger + USB cable and key (SMCT GUI)
Protection degree	IP67