



SEMS LIGHT

SHIELDING EFFECTIVENESS MEASUREMENT
SYSTEM FOR MRI AND SHIELDED ENVIRONMENTS
WITH RF LEAK DETECTOR

TEST OF ELECTRIC AND MAGNETIC FIELD

Fully programmable from 10 KHz to 128 MHz (300 MHz)

COMPLIANCE WITH INTERNATIONAL STANDARDS

MIL-Std-285

IEEE Std 299

EN 50147-1

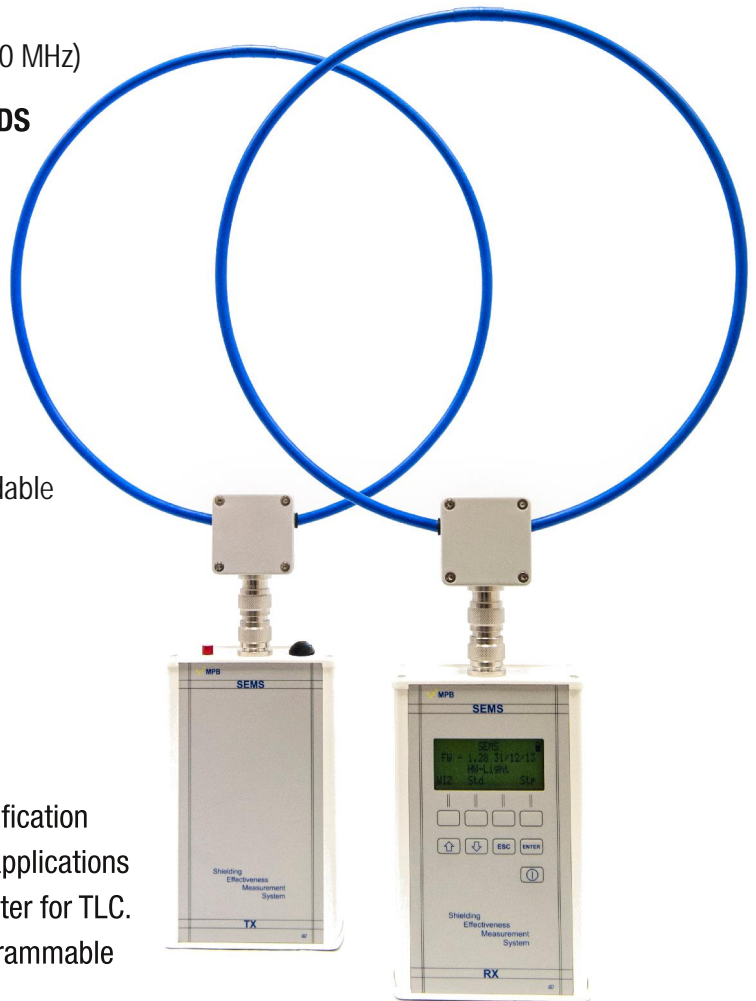
NSA 65-6

BUILT-IN CALIBRATION

Cal Kit procedure up to 120 dB

SEMS SOFTWARE

All measurements stored inside RX and downloadable
from the software PC (OS Windows)



SEMS LIGHT is the right solution for your test/verification requirements of SE in hospitals and many other applications such as EMI-EMC chamber, military and civil shelter for TLC. Easy to use thanks to the list of frequencies programmable from the operator in the range 10 kHz - 128 MHz.

It's possible to upgrade the functionality up to 300 MHz with the software key option.

A wide range of antennas is available to cover all the needs like rod, biconical, dipole, loop.

The RF leak detector is a special function that helps the operator to find the discontinuous points of the shielding.



TECHNICAL SPECIFICATION

Frequency Range (TX and RX)	10 kHz - 128 MHz (300 MHz Opt.)
Programmable Frequencies	12 (maximum). 10 Hz Step resolution
RF Output Max Power (TX Unit)	+30 dBm (50 Ohm N fem)
RF Input Max level (RX Unit)	110 dBuV (automatic attenuators 0...20 dB)
IF bandwidth (RX Unit)	5/150 Hz (3 dB BW)
Precision of the attenuation measurement	0.01..30 MHz +/- 1.0 dB (+/- 1.5 dB over 30 MHz)
I/O Interface	RS 232/ Wireless
Acoustic Alarm	Programmable at the attenuation level
Standards Compliance	MIL-Std-285; IEEE 299; EN50147-1; NSA65-6
Operating Temperature	0°...40°C
Battery power supply	Rechargeable Li-Ion (6 h life) Not rep. by the user
Soft Carrying Case	53 X 30 X 34 (cm) L X W X H

Standard Configuration

TX and RX Unit
 2 Loop Mod. L-1 (2- 128 MHz)
 2 RS232 Wireless Kit
 2 AC Adapter/Charger
 PC software and RS232/USB adapter
 Calibration Certificate
 Operating manual
 Rigid case

Options

Additional antenna Loop Mod. L-2 (10 kHz - 4 MHz)
 Extension frequency until 300 MHz Cod. Key-300

Other available options

Biconical antennas frequency range 60 - 300 MHz
 Dipole antennas frequency range 40 - 300 MHz
 Rod antennas frequency range 1 -128 MHz
 4 attenuator (30 dB each) to calibrate the SEMS
 Mini Loop antenna for RF leak detector
 100% non magnetic Tripode adjustable in height with bag
 Optic Link with fiber optic (20 m)

Mod. B1
 Mod. D2
 Mod. R2
 Mod. CALKIT
 Mod. L3
 Mod. NMR-01

