



## SEMS LIGHT

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

### TEST OF ELECTRIC AND MAGNETIC FIELD

*Fully Programmable from 10 kHz to 96 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 thank to the list of frequencies programmable from the operator in the range 10 kHz - 96 MHz.

It's possible 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

## SEMS LIGHT

Frequency Range (TX and RX)	10 kHz - 96 MHz (300 MHz Opt.)
Programmable Frequencies	11 ( 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 (6h 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 RS 232 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	Mod. B1
Dipole antennas frequency range 40 - 300 MHz	Mod. D1
Rod antennas frequency range 1 - 4 MHz	Mod. R1
4 attenuator (30dB each) to calibrate the SEMS	Mod. CALKIT
Mini Loop antenna for RF leak detector	Mod. L3
Woden Tripode adjustable in height with bag	Mod. TR-02A
Optic Link with fiber optic ( 20 m )	Mod. LO

