Warranty: S.L.P. warrants each new Sensor Tester manufactured and sold to be free from defects in material, workmanship, and construction. When used in accordance with these instructions, the tester will perform to applicable specifications for a period of one year after original delivery. S.L.P.'s only obligation is limited to repair or replacement, at our option, of the defective unit. S.L.P. is not responsible for products that have been subject to misuse, alteration, accident, or repairs. The foregoing warranty constitutes S.L.P.'s sole liability, and is in lieu of any other warranty, of merchantability or fitness. S.L.P. is not responsible for any incidental or consequential damages arising from any breach of warranty.

i **For more information**

Authorized European Representative:
Medes Limited
9 Beaumont Hill,
Radlett, Herts
WD7 7AR
London, England
Tel/Fax: +44 19238 59810

Manufactured by: S.L.P. Ltd
62 Anilevitz St, Tel-Aviv, 67060 ISRAEL
Tel: +972 3 537 1281, Fax: +972 3 537 1282

S.L.P. Inc.

www.sleepsense.com

Distributed by: S.L.P. Inc.
112 E. Main St. # 240,
St. Charles, IL 60174, USA
Tel: +1 630 513 7479, Fax: +1 630 513 8478
E-mail: info@sleepsense.com
Toll-free (U.S.): +1 888-slp-sens (757 7367)

N5100-EN. rev.1.1

Lab Accessories

SleepSense®

Sensors that make sense

Operating Instructions

Sensor Tester

CE
0483

Environmental conditions for transport and storage:

Temperature: -10ºC - 50ºC, 14ºF - 120ºF
Relative humidity: (%) 10 - 90
Atmospheric pressure: 860 hPa to 1060 hPa

Thank you for purchasing the SleepSense® Sensor Tester.

With the tester you will be able to verify the proper operation of many types of physiological sensors, electrodes and cables used in the sleep lab.

The tester is comprised of two parts: (1) an AC amplifier channel with signal indication and (2) a resistance comparator.

Testing AC Channel Sensors

The AC channel is useful in testing the operation of piezo crystal and piezo film effort sensors, piezo snore and movement sensors, as well as any other sensor producing signals in the mV range.

1. Activate the tester by pressing the ON pad. The ON light will illuminate. The Auto-Off circuit will automatically turn the tester OFF after about 3 minutes. Recommendation: Before proceeding to the next step, it is recommended to test a good sensor first in order to get a feel for a typical, “normal” response. A bad sensor will have no output or will have sudden “flashes” from either light, indicating an intermittent connection.
2. Connect the sensor’s safety DIN connectors to the input pins on the tester marked SENSOR. (Polarity is not important). Activate the sensor by repeatedly pulling on effort belts, pressing on piezo snore sensors, or bending or shaking movement sensors. The lights indicating the signal will blink alternately, indicating signal strength.

Testing Electrodes, Leads, or Thermocouple Type Flow Sensors

The tester will turn on the UP arrow light for resistance under 50 ohms. This is enough to show proper operation of all standard leads and electrodes, yet low enough to prevent showing GOOD on a bad cable.

1. Activate the tester by pressing the ON pad. The ON light will illuminate. The Auto-Off circuit will automatically turn the tester OFF after about 3 minutes.
2. Connect the electrode’s safety DIn connector to the pins on the tester marked R<50. Touch the second pin on the tester, or the area around it, with the electrode body or other end of the cable. The light should illuminate. Recommendation: Shake and bend the wire while looking at the light to make sure it doesn’t blink, which indicates an intermittent contact.

The Sensor Tester Battery

The tester requires a standard 3 volt lithium cell “coin” type CR2032 battery, available in many hardware, drug and discount stores. The battery should last for several years of normal use.

Replace the battery if the tester’s operation becomes erratic. To replace the battery, push the old battery to the right and out of the holder. Insert a new battery into the holder with the positive terminal facing up.

Protect the environment by disposing of the used battery properly.