A comprehensive listing of manufacturers, distributors, and suppliers of sleep sensors with at-a-glance descriptions detailing the various sensors available.

BRAEBON Medical Corp.  
102-2981 Ford St. Extension  
Ogdensburg, NY 13669  
(888) 462-4841; (613) 831-6690  
Fax: (613) 831-6699  
E-mail: sales@braebon.com  
Web site: www.braebon.com  
Sensors: Airflow pressure transducer, body position, pediatric/infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: BRAEBON sells a full range of sleep sensors, including a wide variety of pressure transducers and nasal and oral cannulas.

Cadwell Laboratories Inc.  
909 N. Kellogg St.  
Kennewick, WA 99336  
(800) 245-3001; (509) 735-6481  
Fax: (509) 783-6503  
E-mail: info@cadwell.com  
Web site: www.cadwell.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: Cadwell provides a wide range of sensors and accessories needed for a lab, in addition to PSG and EEG systems.

Compumedics USA Ltd.  
7850 Paseo Del Norte  
El Paso, TX 79912  
(877) 717-3975; (915) 828-4000  
Fax: (915) 845-0355  
Web site: www.compumedics.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring  
Company description: Compumedics sells a wide range of sensors and accessories for PSG and EEG, as well as high-quality film for more realistic breathing patterns.

Dymedix Corp.  
3989 Central Ave. N.E., Ste. 116  
Minneapolis, MN 55421  
(888) 212-1100; (763) 789-8280  
Fax: (763) 781-4120  
E-mail: info@dymedix.com  
Web site: www.dymedix.com  
Sensors: Limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, upper airway resistance syndrome  
Company description: Dymedix produces a full line of disposable and reusable sensors and electrodes for sleep disorder testing. Dymedix sensors use PVDF film for more realistic breathing patterns.

Embla Systems Inc.  
11001 W. 120th Ave.  
Broomfield, CO 80021  
(888) 662-7632; (303) 962-1800  
Fax: (303) 962-1810  
E-mail: sales@embla.com  
Web site: www.embla.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: Embla is a global provider of sleep diagnostic products with systems used in more than 60 countries. It offers full PSG systems, screeners, sensors, and Enterprise management systems.

Gereonics Inc.  
244 La Barranca Dr.  
Solana Beach, CA 92075  
(800) 654-6266; (760) 612-3554  
Fax: (858) 481-3854  
E-mail: sales@gereonics.com  
Web site: www.gereonics.com  
Sensors: Limb movement, respiratory effort  
Company description: Gereonics offers reusable silver/silver chloride electrodes, and respiratory effort and limb movement sensors.

Grass Technologies, an Astro-Med Inc. Product Group  
600 E. Greenwich Ave.  
West Warwick, RI 02893  
(877) 472-7779; (401) 828-4000  
Fax: (401) 822-2430  
E-mail: grass@astromed.com  
Web site: www.grass.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring  
Company description: Grass Technologies offers a wide range of instruments for PSG and EEG. A full line of accessories, transducers, electrodes, video equipment, and more is also available.

MVP Medical Supplies Inc.  
3555 Old Conejo Rd.  
Newbury Park, CA 91320  
(877) 735-6827; (805) 376-8100  
Fax: (877) 735-7213  
E-mail: info@mvapmed.com  
Web site: www.mvapmed.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: MVP offers a wide range of instruments for respiratory airflow, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome.

Nellcor Puritan Bennett (Melville) Ltd.  
303 Terry Fox Dr., Ste. 400  
Ottawa, Ontario, Canada K2K 3J1  
(800) 663-3336; (613) 236-1840  
Fax: (613) 236-1291  
E-mail: sandman@tycohealthcare.com  
Web site: www.sandmantsleep.com  
Sensors: Thermal flow  
Company description: Nellcor Puritan Bennett offers a full line of physiological sensors used in diagnostic testing for sleep disorders. Sleepmate's educational training consists of classroom and Web-based learning.

Pro-Tech Services Inc.  
4338 Harbour Pointe Blvd. S.W.  
Mukilteo, WA 98275  
(800) 519-3900; (425) 322-0300  
Fax: (425) 322-0301  
E-mail: customerservice@pro-tech.com  
Web site: www.pro-tech.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: Pro-Tech Services offers a wide range of sensors and accessories for sleep and lab management software for the diagnosis of sleep-disordered breathing.

Rochester Electro-Medical Inc.  
15619 Premiere Dr., Ste. 204  
Tampa, FL 33624  
(800) 328-5544; (813) 963-2933  
Fax: (800) 545-0845  
E-mail: support@sleepmate.com  
Web site: www.sleepmate.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: Sleepmate Technologies offers a full line of physiologic sleep sensors used in diagnostic testing for sleep disorders. Sleepmate's educational training consists of classroom and Web-based learning.

S.L.P. Inc.  
1121 E. Main St., Ste. 240  
St. Charles, IL 60174  
(888) 757-7387; (630) 513-7479  
Fax: (630) 513-847  
E-mail: info@sleepsense.com  
Web site: www.sleepsense.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: SLP develops sleep sensors under the SleepSense® brand name. It offers accurate signal readings, durability, and high patient compliance.

XLTEK  
2568 Bristol Cir.  
Oakville, Ontario, Canada L6H 5S1  
(800) 387-7516; (905) 629-5300  
Fax: (905) 629-5304  
E-mail: sleep@xltek.com  
Web site: www.xltek.com  
Sensors: Airflow pressure transducer, body position, limb movement, pediatric /infant, respiratory airflow, respiratory effort, snoring, thermal flow, upper airway resistance syndrome  
Company description: XLTEK uses a customer-focused approach to develop easy-to-use, accurate, and reliable medical devices and systems, including fixed, portable, and ambulatory PSG.
The original BRAEBON dual airflow pressure transducer accurately indicates airflow, snoring, and esophageal pressure (optional) on your sleep system. Upper airway resistance syndrome, various forms of sleep apnea, and snoring are reflected clearly using a disposable nasal/oral cannula and/or a disposable esophageal catheter. This advanced pressure transducer system is capable of interfacing with a wide variety of sleep recording systems. Visit www.braebon.com. Call (888) 462-4841.

Compumedics manufactures a full range of diagnostic equipment and accessories to meet your growing laboratory needs. Its wireless Siesta amplifier gives you freedom from wires without compromise. The durable, reliable E-Series incorporates built-in pressure transducers, which enable recording of both pressure and snore signals with no additional equipment or adaptors required. Call (877) 717-3975.

Embla devices have an internal airflow pressure transducer. The pressure is measured by connecting a nasal cannula to the Luer Lock of the recorder. Embla’s steel Luer Lock lasts longer than plastic locks and improves signal integrity. Nasal flow and mask pressure can be measured, which makes Embla devices ideal for sleep diagnostic and treatment efficacy studies. Visit www.shopembla.com. Call (888) 662-7632.

Pro-Tech® manufactures the PTAF2™ and PTAF Lite™ pressure-based sensors, which generate accurate signals of respiratory airflow and an accurate flow-based snore channel. The PTAF2 can be used in AC or DC configurations and during nCPAP titrations. The PTAF Lite is a lightweight, AC-only device most often used during diagnostic studies. Visit www.pro-tech.com. Call (800) 919-3900.

The Sleepmate® dual channel airflow pressure sensor can detect airflow pressure changes as single channel or dual channels using nasal/oral dual lumen cannula. It uses up to four outputs and has a filtered airflow and snoring channel for oral and nasal channels. This sensor also has an input port for use during CPAP titration, and it can be used with AC or DC channels. It uses a 9 V battery with an estimated battery life of 400 hours. Call (800) 639-5432.

BRAEBON announces the all-new Ultima™ body position sensor. This new rugged design is backed by a one-year unlimited use warranty and has a battery life expectancy of two years. The improved sensor tracking technology detects body positions more accurately and is compatible with most sleep systems, including the new Alice 5. This is a simple-to-use place-and-plug sensor. Quality, reliability, and durability are backed by warranty and customer satisfaction. Visit www.braebon.com. Call (888) 462-4841.

Compumedics manufactures a full range of sleep and neurodiagnostic sensors. The Compumedics body position sensor easily attaches to most PSG systems using industry standard 1.5 mm connectors. Call (877) 717-3975.


The new body position sensors from SLP Inc. are smaller and more durable. The new design integrates the sensor and battery in one small, flat plastic box. The result is a sensor that provides a clear, artifact-free, qualitative indication of body position. The voltage from the SleepSense body position sensor is regulated, so it never needs recalibration. Call (888) 757-7367.
Accurate body position monitoring is important to the diagnosis of sleep-disordered breathing. Sleep technologists require reliable, easy-to-place sensors for sleep testing. Pro-Tech® body position sensors are designed to easily and comfortably mount onto thoracic respiratory effort belts and are compatible with most PSG systems. Visit www.pro-tech.com. Call (800) 919-3900.

The Sleepmate® body position sensor monitors the position of the body during sleep. The sensor detects five positions, and it’s available in AC and DC versions. The AC sensor is used with analog output records (primarily paper), and the DC sensor is designed for digital recorders. The AC sensor generates five different output patterns to coincide with the appropriate position. The DC sensor generates different output voltages to correspond with different positions. Call (800) 639-5432.

Compumedics manufactures a full range of sleep diagnostic sensors. Its limb movement sensors tape to the leg or arm to monitor patient limb movements during sleep studies. The piezo film sensor eliminates the need for skin preparation. Compumedics limb movement sensors produce clear, accurate signals without background or electrocardiograph artifact. Call (877) 717-3975.

Dymedix Corp. announces the Real-EZ™ Reusable limb movement sensor. Based on polyvinylidene fluoride film, the Real-EZ is latex-free and adjustable to fit all adult ankles or wrists. Obtain clean, reliable tracings without the need for gel, paste, or skin preparation. Visit www.dymedix.com. Call (888) 212-1100.

Embla provides easy-to-apply, disposable electrodes and snap-on cables to measure electromyography. Embla's software applications feature proven analysis algorithms, which make it easy to include limb movement information in your study. Visit www.shopembla.com. Call (888) 662-7632.

Professional sleep technologists look for three important criteria in sensors: accurate signals, ease-of-use, and patient comfort. Pro-Tech® limb movement sensors deliver all three. Designed to detect a patient’s limb movements during sleep studies, these sensors provide reliable signals while permitting patient comfort. Multiple sensors can be configured to combine PLM signals onto a single channel. Visit www.pro-tech.com. Call (800) 919-3900.

The Sleepmate® limb movement sensor kit uses piezo technology to measure leg and/or arm movements during sleep. The sensors are easy to attach and comfortable to use. Placing the sensor on a patient’s foot enables sensing of all eight muscle groups in the leg. This provides an accurate signal that can be used to demonstrate the correlation between limb movement and arousal. Call (800) 639-5432.

With its built-in compression filter, this sensor from SLP Inc. was designed exclusively for limb movement measurement, and it’s more sensitive than EMG. It provides a strong and accurate signal and allows tracing of movements of any size. Its small size and smooth contour improve patient tolerance. It’s easy to use and to clean. Call (888) 757-7367.

Compumedics carries a full line of both pediatric and infant sensors from a variety of manufacturers. From infant pulse oximeter probes to respiratory effort sensors, Compumedics is a single-source provider for your sensor requirements. Call (877) 717-3975.

A new size is now available in the airflow sensor line, made from the same polyvinylidene fluoride film technology that makes Dymedix Corp. sensors reliable. This new children’s size is larger than the pediatric size but smaller than the adult small size. These disposable sensors make infection control for your technicians easier and safer, especially with pediatric diseases. Visit www.dymedix.com. Call (888) 212-1100.
**sleep sensors**

**Embla**'s XactTrace™ Respiratory Inductive Plethysmography effort sensors are accurate and soft, and they apply low pressure to the chest and can be custom fit for any size. These single-use belts are also hygienic. Combined with Embla's infant cannula, infant oximeter, and light, ergonomic pediatric systems and software, Embla can meet your pediatric and infant needs. Visit [www.shopembla.com](http://www.shopembla.com). Call (888) 662-7632.

**Pro-Tech**® offers a complete line of sleep diagnostic sensors for the infant and pediatric market. “Safe, Secure, and Dependable” is the foundation for Pro-Tech’s family of sensors. Patient comfort and signal quality are equally important in these sensors. Visit [www.pro-tech.com](http://www.pro-tech.com). Call (800) 919-3900.

This miniature thermal flow sensor from SLP Inc. was designed especially for infant and premature infant respiration flow sensing. It’s applied over the bridge of the nose and produces a strong, clear signal. Unlike cannulas, this sensor design assures signal despite running nose or sniffing. Safety DIN connectors are compatible with most systems. Call (888) 757-7367.

The Easyflow system from Sleepmate® consists of three parts: a translucent, paper-thin sensor with multiuse sensor box and interface cable. The Easyflow sensor is available in three sizes, and the same cable works with all three. It has a comfortable design, it’s cost-effective, and it offers the convenience of a disposable sensor. A self-adhesive version is now available. Call (800) 639-5432.

The BRAEBON Ultima™ Airflow Differential Pressure Transducer (Model 0580) accurately indicates airflow and snoring on a wide variety of sleep recording systems. Easier to use with fewer cables and more features, this differential pressure transducer is small, inexpensive to operate, and usable with CPAP. A disposable cannula is used to clearly indicate upper airway resistance syndrome, various forms of sleep apnea, and snoring. Visit [www.braebon.com](http://www.braebon.com). Call (888) 462-4841.

**Compumedics** offers a full line of thermocouples and thermistors, including pediatric and adult airflow sensors, which are compatible with most PSG systems. In addition to reusable airflow sensors, Compumedics has a wide variety of disposable airflow products, pressure transducers, cannulas, and accessories. Call (877) 717-3975.

**Dymedix Corp**.® has a new line of polyvinylidene fluoride (PVDF) reusable sensors to complement their existing line of disposable PVDF sensors. Both the RealFlo™ reusable airflow sensor and the disposable sensor are capable of detecting flow limitations associated with respiratory effort-related arousals, or with a narrower filter to produce waveforms similar to those seen with thermocouple/thermistor technology. Call (888) 212-1100.

**Embla** nasal cannulas were designed specifically for sleep diagnostic studies by engineers. They feature a simple and secure connection to the pressure transducer and provide better accuracy in nasal pressure signal analysis. They’re also available in different lengths to best fit the recording environment. Visit [www.shopembla.com](http://www.shopembla.com). Call (888) 662-7632.

**Pro-Tech**® Pro-Flow and Pro-Flow Plux™ cannulas are designed for pressure transducers and provide optimal respiratory airflow performance and comfort. Each cannula has a hydrophobic, anti-microbial filter preventing cross-contamination and transducer failure. The Pro-Flow MultiPurpose™ cannula has a unique patented design developed for use in simultaneous monitoring of patient respiratory airflow and sampling, or delivery of gases, such as EtCO₂ or oxygen. Sizes are available for both pediatric and adult patients. Visit [www.pro-tech.com](http://www.pro-tech.com). Call (800) 919-3900.

**Rochester Electro-Medical Inc.** offers a complete line of respiration monitors for recording nasal/oral airflow. The newest version of the most popular UltraFlow™ cannula-style monitor is available in adult and child sizes. It features a thinner, smaller design that’s strong and reliable while maintaining the flexibility needed to provide maximum patient comfort. Visit [www.rochestersleep.com](http://www.rochestersleep.com). Call (800) 328-5544.
The **Sleepmate**® thermocouple reusable airflow sensor detects respiratory airflow for recording onto a polygraph, EEG, or similar physiological recorder. The sensor plugs directly into the electrode jack box, so no external power source is required. The sensor probes are flexible, allowing each probe to be bent gently to ensure the airflow path. Call (800) 639-5432.

**BRAEBON**'s Model 0528 respiratory effort sensor is now compatible with Alice 5. This high output effort system is a piezo effort-sensing device. It offers two-dimensional signal generation, which produces a signal five times stronger than that of most competitors' effort belts. These sensors are reliable, durable, and backed by warranty and customer satisfaction. Visit www.braebon.com. Call (888) 462-4841.

**Compumedics** manufactures the Summit IP, a battery-powered module that features advanced microprocessor technology. It continually tracks each breath and automatically updates the calibration factors to produce a balanced SUM channel output. The respiratory effort signals from the Summit IP always maintain their polarity, providing reliable indications of respiratory paradox. Call (877) 717-3975.

Reusable respiratory effort belts from **Dymedix Corp.** are now ultrasonically welded to give increased durability to the sensor's 1-inch wide material. The one-size-fits-all straps are made with material that doesn't roll and can be washed. They're available in pairs or as single belts. Call (888) 212-1100.

**Embla**'s new XactTrace™ Universal belt is a one-size-fits-all, reusable effort tracing sensor that features respiratory inductive plethysmograph technology. The XactTrace Universal belt has been engineered for use with most PSG recording systems. It comes with standard and specialized connectors for compatibility with Embla and other PSG manufacturers' amplifier systems. Visit www.shopembla.com. Call (888) 662-7632.

The **Gereonics** Ultra-Piezo respiratory effort sensors are supplied in two versions: the conventional strap system and the newer adhesive system. Both have a low profile and plug directly into a headbox with safety connectors. No batteries are required. The adhesive respiratory effort sensor is non-constraining and will not slip or slide after positioning. Visit www.gereonics.com. Call (800) 654-6266.

**SLP Inc.** introduces new interface cables to go with its Inductive (RIP) bands. Now, with two separate cables for the thorax and the abdomen and a variety of connection methods, these sensors are compatible with most PSG systems on the market. The interface cable is a plug-and-play replacement for any existing inductive or piezo sensor. Call (888) 757-7367.

**Pro-Tech**® has developed the new zRIP™ system, offering respiratory inductance plethysmography that’s affordable and accurate. The zRIP system comes either as a two channel RIP that has two effort channels, or in three channels, which includes a normalized summing output. Visit www.pro-tech.com. Call (800) 919-3900.

**Sleepmate**® offers piezo film or crystal respiratory effort sensors, which come available with a full line of belting options: Velcro® tab, buckle, and loop. The sensors are designed to meet the specific needs of the sleep lab and patients. Different design options provide customized patient comfort and high sensitivity for patients ranging in size from infants to very large adults. Ask about Sleepmate's new beltless effort sensors for kids. Call (800) 639-5432.

**BRAEBON**'s Ultima™ snore sensor offers a durable, clear signal. Backed by a nine-month warranty, it's compatible with most sleep systems, including the new Alice 5. Simply place it on, plug it in, and away you go. Visit www.braebon.com. Call (888) 462-4841.
The Compumedics snore microphone is designed to accurately detect sounds associated with snoring. It delivers clear, responsive signals, it’s easy to apply, and it’s compatible with most PSG systems. Call (877) 717-3975.

Dyemedix Corp. announces the new RealSnor™ reusable snore sensor. The same polyvinylidene fluoride technology of Dyemedix disposable snore sensors is used in this new reusable sensor. Both the reusable snore sensors and the disposable versions are available in classic neck-placement configuration or over-the-nose placement to eliminate concerns for carotid artery artifact, beards, heavy stubble growth, and large, fleshy necks. Call (888) 212-1100.

In addition to detecting snoring through its nasal cannulas, Embla also provides an accurate, high-quality piezo snore sensor. This small, lightweight sensor is comfortable for the patient and easy to apply. Visit www.shopembla.com. Call (888) 662-7632.

The Pro-Tech® snore microphone utilizes a dynamic microphone sensor and offers a quiet baseline. Pro-Tech has encapsulated the microphone to prevent moisture damage. It’s small and thin for easy patient application, doesn’t require a battery, and is compatible with most PSG systems. Visit www.pro-tech.com. Call (800) 919-3900.

Sleepmate®’s piezo snore sensor plugs directly into the AC channel of a recorder and provides a high-quality definitive signal of snoring sounds or vibrations. The moisture-resistant piezo sensor is low profile with high sensitivity and a soft plastic coating. Call (800) 639-5432.

Embla’s single-channel oral/nasal thermistors and thermocouple fit all sizes from adult to pediatric patients. It features flexible, rubber-coated probes for oral (one probe) and nasal (two probes) airflow. They don’t require batteries and are available in different lengths. Visit www.shopembla.com. Call (888) 662-7632.

Pro-Tech® provides thermocouples and thermistors compatible with most major PSG systems. Pro-Tech’s sensors are comfortable and easy-to-place. Variations include the ability to monitor oral/nasal separately and/or together, adult and pediatric sizes, and disposable thermocouples. Visit www.pro-tech.com. Call (800) 919-3900.

Save time and money with Puritan Bennett’s Sandman® BreathSensor® airflow thermistor, a single-patient-use airflow sensor. This thermistor can be applied securely and provides comfort for patients of all ages and sizes. It interfaces with any sleep diagnostic system with PSG amplifiers that have a 1.5 mm AC input. Visit www.sandmansleep.com. Call (800) 663-3336.

The Sleepmate® thermistor is a reusable airflow sensor that detects respiratory airflow for recording onto a polygraph, EEG, or similar physiological recorder. This one-size-fits-all sensor uses a multiuse interface box. It’s designed to ensure a longer product life. Call (800) 639-5432.
SLP Inc.'s oral flow only thermocouple is designed to capture oral flow signal when monitoring nasal flow through a pressure cannula. The sensor has a bendable wire that easily attaches the sensors to the cannula without the need to apply additional sensors on the patient's face. Safety DIN connectors output is compatible with most systems. Call (888) 757-7367.


This sensor from SLP Inc. was designed to monitor a wide range of air pressures in medical applications that aren't life-supporting such as esophageal catheter or balloon and CPAP/bilevel. Its small size and absence of switches, lights, or adjustments ensure ease-of-use and reliable performance for years. Call (888) 757-7367.

Don’t miss… the Annual Buyers Guide in the July/August issue of ADVANCE for Managers of Respiratory Care.