

## Dymedix 'Apollo Dual Airflow Sensor'

Jim Moore, Director of Marketing  
Tom Zymowski, Director Product Innovation  
Dymedix Medical Technology  
Shoreview, MN

### SENSOR TECHNOLOGY

The Dymedix Apollo™ Dual Airflow Sensor is a unique air pressure transducer. Unlike other pressure transducers that use a cannula-type design, the Apollo is a cannula-free device that measures both pressure and thermal energy using a patented polyvinylidene fluoride film (PVDF). With this technology, the Apollo is able to detect and measure the kinetic (i.e. pressure transducer) and thermal (i.e. thermistor or thermocouple) energy of air molecules in one device.

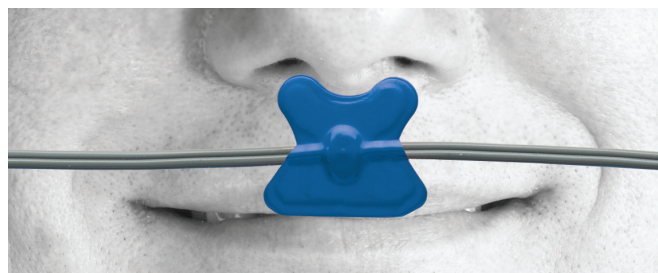
### SUPERIOR PATIENT COMFORT

About 3 years ago, Dymedix performed an in-depth study of the marketplace to find out what customers wanted. It appeared that one thing customers needed was to get rid of the cannulas used to measure air pressure. There were complaints that cannulas were uncomfortable for the sleep study patient. The Apollo measures air pressure, but is more comfortable for the patient because of its cannula-free design.

Furthermore, during polysomnography, the American Academy of Sleep Medicine recommends using both an oronasal thermal sensor to detect apneas and a nasal air pressure transducer to detect hypopneas. The Apollo can provide all of this information in one sensor and is, therefore, less cumbersome to the patient.

### FEATURES

Since the Apollo is a cannula-free device, there is no clogging. Also, when a patient is placed on a nasal cannula (pressure transducer) and begins to mouth-breathe, the quality of the signal will begin to diminish significantly and the waveform



may even flatten because the transducer is unable to pick up the signal. This is not an issue with the Apollo twin film sensor because it monitors both nasal and oral breathing from the same sensor.

The Apollo is a reusable sensor with a 6-month warranty and is available in medium and large adult sizes. Dymedix also offers a reusable and disposable product among its single sensor airflow products.

### DYMEDIX VISION

The Dymedix vision is to become the ultimate solution for sleep diagnostic data collection. To this end, Dymedix has focused on reducing the number of sensors, electrodes and wires connected to the patient and has developed sensors that improve the quality and accuracy of the waveforms used in the diagnosis of sleep disorders.

For more information about Dymedix or the Apollo Dual Airflow Sensor, please visit [www.dymedix.com](http://www.dymedix.com)