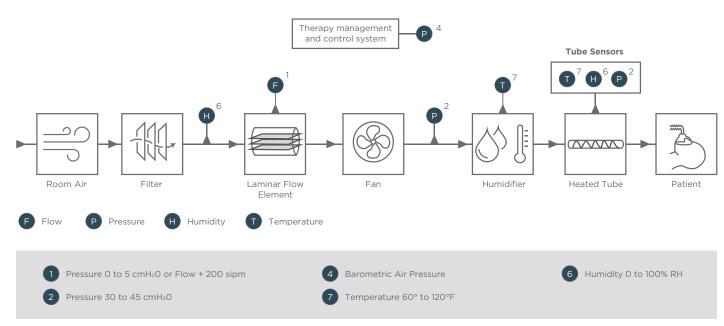


Continuous Positive Airway Pressure (CPAP) devices are used to force breathable air into the lungs of patients who suffer from sleep apnea, where breathing unintentionally starts and stops during sleep. Detecting and curing the interval breathing cessation during overnight sleep helps to reduce the risk of hyper blood pressure, cardiovascular disease and relative secondary diseases. TE Connectivity's (TE) sensors allow for the continuous, accurate control of air flow, pressure, vibration and humidity to keep patients comfortable and safe.

## TE CONNECTIVITY ADVANTAGES

- Portfolio Breadth
- Medical Experience
- Manufacturing Scale
- Customization Capability

## **CPAP**



## **SENSORS FOR CPAP MACHINES**

## **SENSORS**

Sensor Tech	nology	Application	Key Product Features	Benefits
SMI 6000	*	Monitor system air pressure to patient     Also monitor air flow through humidifier if present	Small size High accuracy Available with gauge or differential reference Analog I <sup>2</sup> C, or SPI outputs Very low power requirements	Helps maintain constant patient positive air pressure     Facilitates proper humidification of the air     Fits compact packaging     Low power     Easy to interface
SM1xxx		<ul> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow through humidifier if present</li> </ul>	Small size High accuracy Available with gauge or differential reference Analog I <sup>2</sup> C, or SPI outputs Very low power requirements	Helps maintain constant patient positive air pressure     Facilitates proper humidification of the air     Fits compact packaging     Low power     Easy to interface
SMI 9000	4	<ul> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow through humidifier if present</li> </ul>	Small size High accuracy Available with gauge or differential reference Analog I <sup>2</sup> C, or SPI outputs Very low power requirements	Helps maintain constant patient positive air pressure Facilitates proper humidification of the air Fits compact packaging Low power Easy to interface
SMI 7000	4	<ul> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow through humidifier if present</li> </ul>	Small size High accuracy Available with gauge or differential reference Analog I <sup>2</sup> C, or SPI outputs Very low power requirements	Helps maintain constant patient positive air pressure     Facilitates proper humidification of the air     Fits compact packaging     Low power     Easy to interface
LMI		Monitor patient air flow rate     Inhale and exhale respiration	Thermal microflow channel measurement technique Differential and bidirectional sensing I <sup>2</sup> C interface	Very accurate at low pressure and low flow rate measurement Accuracy is % of reading Easy interface
LME		Monitor patient air flow rate     Inhale and exhale respiration	Thermal microflow channel measurement technique Differential and bidirectional sensing SPI or analog output	Very accurate at low pressure and low flow rate measurement Accuracy is % of reading Easy interface
44000 series		Monitor patient air temperature	Small size     Low cost     High sensitivity	Maintain patient air temperature for comfort
НТИЗх		Monitor and control patient air humidity	<ul> <li>Full range 0-100% RH</li> <li>Small size</li> <li>I<sup>2</sup>C interface</li> </ul>	Maintain patient air RH for comfort
КМТ36Н	HATT.	Monitor fan rotation	Magnetic non-contact     360° range     Low cost	Helps maintain constant patient air pressure

