

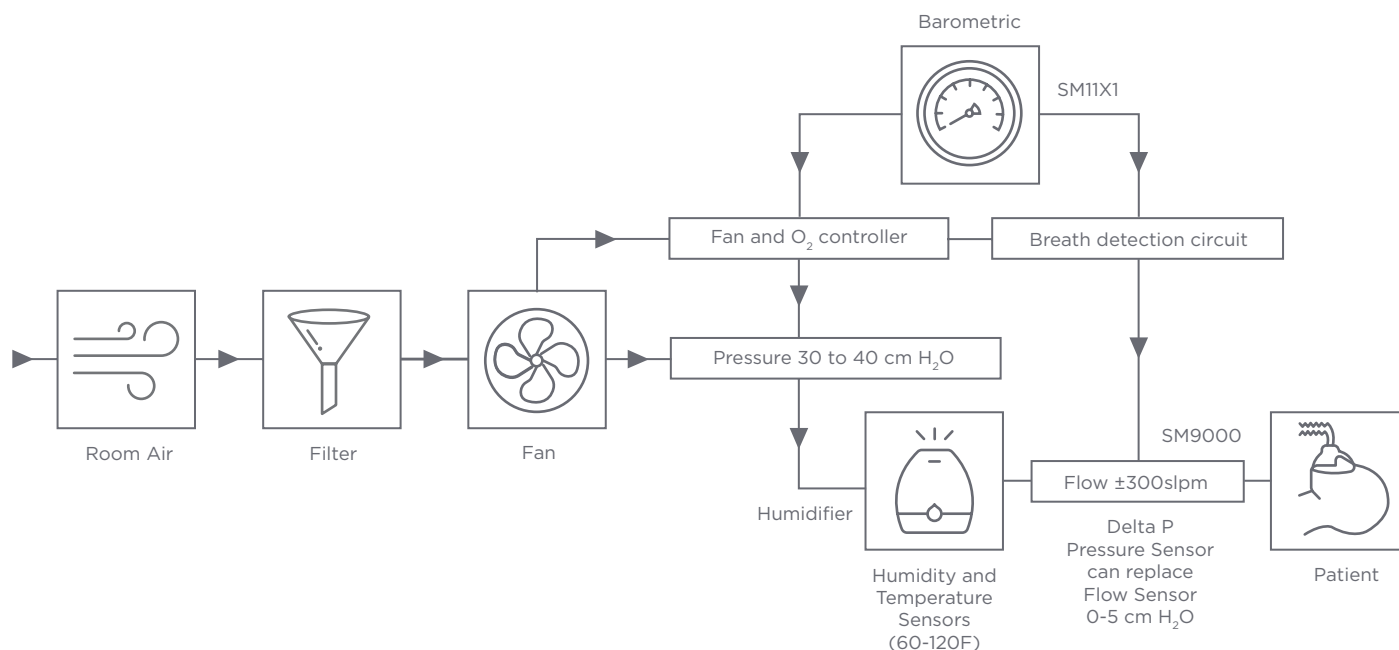
# SENSORS FOR CPAP MACHINES

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 MACHINES



## SENSORS FOR CPAP MACHINES

Sensor Technology		Application	Key Product Features	Benefits
SM6000		<ul style="list-style-type: none"> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow thru humidifier if present</li> </ul>	<ul style="list-style-type: none"> <li>Small size</li> <li>High accuracy</li> <li>Available with gauge or differential reference</li> <li>Analog</li> <li>I<sup>2</sup>C, or SPI outputs</li> <li>Very low power requirements</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain constant patient positive air pressure</li> <li>Facilitates proper humidification of the air</li> <li>Fits compact packaging</li> <li>Low power</li> <li>Easy to interface</li> </ul>
SM1xxx		<ul style="list-style-type: none"> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow thru humidifier if present</li> </ul>	<ul style="list-style-type: none"> <li>Small size</li> <li>High accuracy</li> <li>Available with gauge or differential reference</li> <li>Analog</li> <li>I<sup>2</sup>C, or SPI outputs</li> <li>Very low power requirements</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain constant patient positive air pressure</li> <li>Facilitates proper humidification of the air</li> <li>Fits compact packaging</li> <li>Low power</li> <li>Easy to interface</li> </ul>
SM9000		<ul style="list-style-type: none"> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow thru humidifier if present</li> </ul>	<ul style="list-style-type: none"> <li>Small size</li> <li>High accuracy</li> <li>Available with gauge or differential reference</li> <li>Analog</li> <li>I<sup>2</sup>C, or SPI outputs</li> <li>Very low power requirements</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain constant patient positive air pressure</li> <li>Facilitates proper humidification of the air</li> <li>Fits compact packaging</li> <li>Low power</li> <li>Easy to interface</li> </ul>
SM7000		<ul style="list-style-type: none"> <li>Monitor system air pressure to patient</li> <li>Also monitor air flow thru humidifier if present</li> </ul>	<ul style="list-style-type: none"> <li>Small size</li> <li>High accuracy</li> <li>Available with gauge or differential reference</li> <li>Analog</li> <li>I<sup>2</sup>C, or SPI outputs</li> <li>Very low power requirements</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain constant patient positive air pressure</li> <li>Facilitates proper humidification of the air</li> <li>Fits compact packaging</li> <li>Low power</li> <li>Easy to interface</li> </ul>
LMI		<ul style="list-style-type: none"> <li>Monitor patient air flow rate</li> <li>Inhale and exhale respiration</li> </ul>	<ul style="list-style-type: none"> <li>Thermal microflow channel measurement technique</li> <li>Differential and bidirectional sensing</li> <li>I<sup>2</sup>C (LMI)</li> <li>SPI or analog (LME) output</li> </ul>	<ul style="list-style-type: none"> <li>Very accurate at low pressure and low flow rate measurement</li> <li>Accuracy is % of reading</li> <li>Easy interface</li> </ul>
LME		<ul style="list-style-type: none"> <li>Monitor patient air flow rate</li> <li>Inhale and exhale respiration</li> </ul>	<ul style="list-style-type: none"> <li>Thermal microflow channel measurement technique</li> <li>Differential and bidirectional sensing</li> <li>I<sup>2</sup>C (LMI)</li> <li>SPI or analog (LME) output</li> </ul>	<ul style="list-style-type: none"> <li>Very accurate at low pressure and low flow rate measurement</li> <li>Accuracy is % of reading</li> <li>Easy interface</li> </ul>
44000 series		<ul style="list-style-type: none"> <li>Monitor patient air temperature</li> </ul>	<ul style="list-style-type: none"> <li>Small size</li> <li>Low cost</li> <li>High sensitivity</li> </ul>	<ul style="list-style-type: none"> <li>Maintain patient air temp for comfort</li> </ul>
HTU3x		<ul style="list-style-type: none"> <li>Monitor and control patient air humidity</li> </ul>	<ul style="list-style-type: none"> <li>Full range 0-100% RH</li> <li>Small size</li> <li>I<sup>2</sup>C interface</li> </ul>	<ul style="list-style-type: none"> <li>Maintain patient air RH for comfort</li> </ul>
KMT36H		<ul style="list-style-type: none"> <li>Monitor fan rotation</li> </ul>	<ul style="list-style-type: none"> <li>Magnetic non-contact</li> <li>360° range</li> <li>Low cost</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain constant patient air pressure</li> </ul>