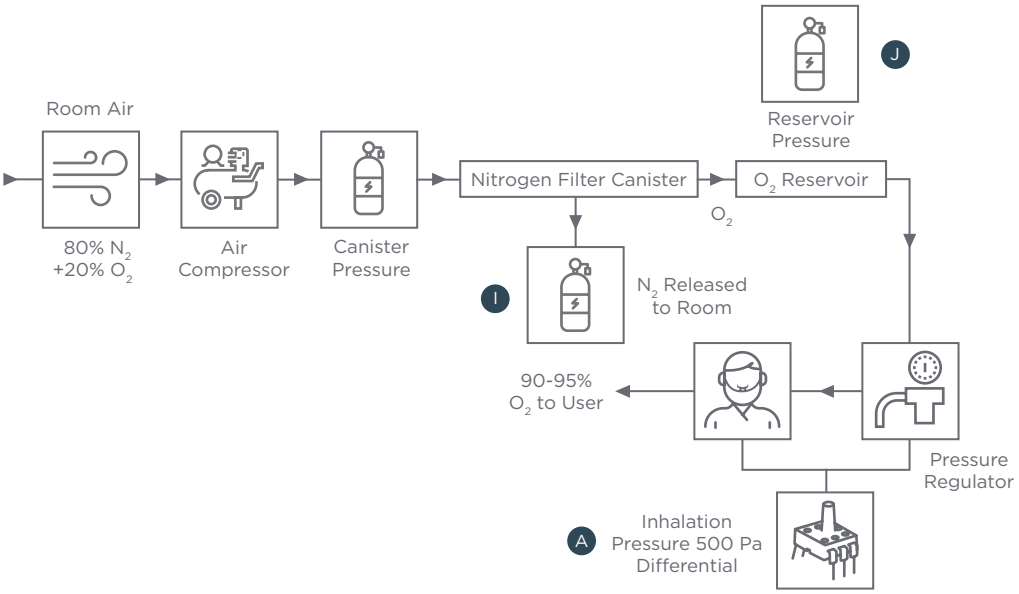
SENSORS FOR OXYGEN CONCENTRATORS

An oxygen concentrator is a medical device that pulls in surrounding air, compresses and purifies it producing oxygen-rich air immediately and continuously for patients suffering from breathing difficuluties requiring medical oxygen. These devices may be used in hospitals or as home units. TE Connectivity's (TE) sensor technologies accurately monitor reservoir pressure and patient respiration to properly dispense oxygen only on inhale. The pressure sensors provide critical data from patients with shallow breathing and pulminary problems with extremely high accuracy.

TE CONNECTIVITY ADVANTAGES

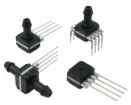
- Portfolio Breadth
- Medical Experience
- Manufacturing Scale
- Customization Capability

OXYGEN CONCENTRATOR



- A Pressure 500 Pa differential
- I Pressure 30 PSI differential
- J 15 PSI gauge

SENSORS FOR OXYGEN CONCENTRATORS

Sensor Technology		Application	Key Product Features	Benefits
SM1391		• Monitor oxygen collection reservoir pressure	• Small size • Low power • Digital/analog output • SOIC package	• Enables compact design • Saves battery life • Comptible with any electronic system • Good for SMD PCB
HDIB002		• Monitor oxygen collection reservoir pressure	• Small size • Low power • Digital/analog output • DIP and j-lead package connections	• Enables compact design • Saves battery life • Comptible with any electronic system • Good for SMD and thru-hole PCB
HMAB2x5		• Monitor oxygen collection reservoir pressure	• Small size • Variety of packages for thru-hole mounting • Analog output only	• Enables compact and versatile PCB design
SM1291		• Monitor oxygen collection reservoir pressure	• Small size • Low power • Digital output • SOIC package	• Enables compact design • Saves battery life • Comptible with I^2C digital systems • Good for SMD PCB
HDIB001B		• Monitor oxygen collection reservoir pressure	• Small size • Low power • Analog output • SOIC package	• Enables compact design • Saves battery life • Comptible with analog systems • Good for SMD and thru-hole PCB
SM7331		• Monitor patient respiration and dispense oxygen only on inhale	• Very low full scale pressure range • Small size • Low power • Lower cost • Digital output only	• Good sensitivity via nose cannula • Extends battery life • Enables compact design • Good for SMD PCB
SM7391		• Monitor patient respiration and dispense oxygen only on inhale	• Very low full scale pressure range • Small size • Low power • Lower cost • Digital/analog output	• Good sensitivity via nose cannula • Extends battery life • Enables compact design • Good for SMD PCB
LMI		• Monitor patient respiration and dispense oxygen only on inhale	• Extremely low full scale pressure range • Accuracy is a percent of reading not a percent of full scale • Provides temperature and humidity data also • I^2C output only	• Accurate data from patients with shallow breathing and pulminary problems • Extremely high accuracy at very low pressures
LME		• Monitor patient respiration and dispense oxygen only on inhale	• Extremely low full scale pressure range • Accuracy is a percent of reading not a percent of full scale • Provides temperature and humidity data also • SPI/analog output	• Accurate data from patients with shallow breathing and pulminary problems • Extremely high accuracy at very low pressures

te.com/sensors

TE-SEN-MED600 04/2023