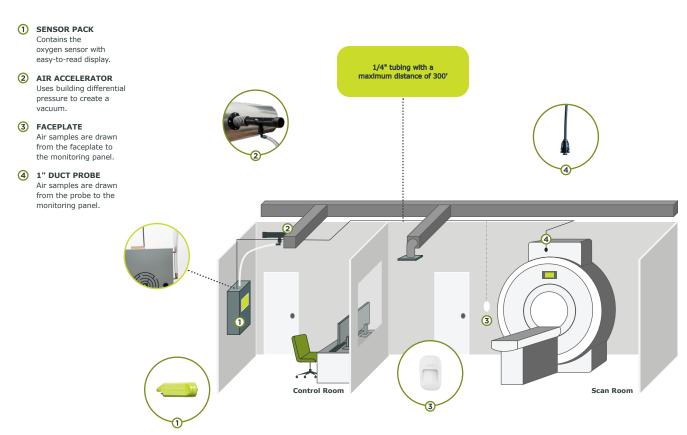


MRI Monitoring for Oxygen Deficiency

MRI machines require large amounts of helium to maintain the required magnetic field. In the event of a helium leak, the machine is at risk of improper operation. Likewise, the indoor environment and any individual in the room is also at risk, as the atmosphere may be deprived of oxygen.

Antrum's centralized sensing platform is the ideal solution for MRI rooms. Using the building's existing HVAC system to draw air samples from the MRI room to the technician's office or maintenance room, AntrumX[™] is easier to access, calibrate, and maintain than traditional solutions. Additionally, AntrumEYE's smart analytics dashboard is accessible on a computer or mobile device, delivering critical oxygen level data anywhere, anytime.

SAMPLE INSTALLATION





Benefits of Antrum's Centralized Sensing

Reliability

AntrumX utilizes the building duct static pressure to generate a vacuum instead of prone-to-fail mechanical pumps. The ability to provide a system with no moving parts makes AntrumX a more reliable solution compared to competitive products.

Calibration

Competitive products require the use of calibration gases in the field whereas AntrumX allows users to calibrate sensors in less than one minute by simply replacing the sensor pack. In addition, AntrumX uses an optical oxygen sensor that can last up to five years in clean environments.

Total Cost of Ownership

With lower initial and continuous costs to maintain, AntrumX provides an owner with a more reliable and cost-effective approach to monitoring their MRI rooms.

Total Cost of Ownership (TCO)												
Parameters			Initial Cost	12th Mo. Calibration	24th Mo. Calibration	36th Mo. Calibration	48th Mo. Replacement	TCO for 4 Years	Antrum Savings			
1 MRI Room	O ₂	Competitor(s)	\$8,300	\$125	\$1,000	\$125	\$1,000	\$10,550	24%			
		AntrumX	\$6,400	-	\$800	-	\$800	\$8,000				

Notes:

- a. "Initial Cost" and sensor "replacements" exclude installation costs
- b. Competitor(s) use an electro-chemical sensor, requiring annual field calibrations
- c. AntrumX utilizes luminescence-based optical technology, upgraded every two years
- d. AntrumX is replaced with a one minute sensor pack replacement

Oxygen Gas Sensor Specifications											
Typical Application	Technology	Barometric Pressure Range	Temperature Range	Accuracy	Response						
Oxygen Depletion for MRI	EChem	87 - 1085 mb	0 - 65° C	-0.7 - 0.7% O ₂	< 30s						

- a. Measures partial pressure of Oxygen (ppO₂)
- b. Sensor lifetime > two years, up to five years in clean environment