

Better than ever! **New monitors** for critical environments

Regulvar is delighted to launch an exclusive line of new-generation monitors, making our automation solution for critical environments more versatile and energy-efficient than ever. The first monitor controls air velocity in laboratory fume hoods, while the second controls air pressure in laboratories, clean rooms and isolation rooms.

The design team wanted to replace Regulvar's former monitors with more user-friendly devices based on state-of-the-art technologies, which could be seamlessly integrated into the solution offered to clients.

They opted for a touch-screen interface capable of managing both display and control functions. The monitors feature a sleek design, simple icons and colour codes for easy legibility, making for an intuitive user experience. In addition, users can configure the display language and units of measurement.

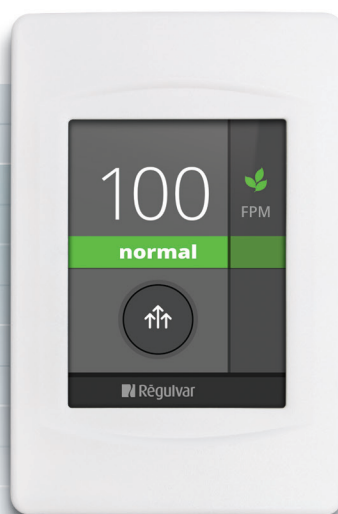
An audible alarm as well as a safety status display—green for normal, yellow for a warning and red for emergency—rapidly alert occupants to current conditions.



laboratory **Lab monitor**

This device displays **air pressure** at all times and the safety status of a single room, or of a main room and anteroom.

Arrows indicate whether the system is in evacuation mode (e.g., for a clean room) or in vacuum mode, in the case of containment. A gas detection function allows the monitor to be connected to sensors to obtain indicators for general air quality or a specific reading (e.g., CO₂ levels).



fume hood **Fume hood monitor**

This device continuously displays **real-time face velocity measurements**, as well as safety status. An audible alarm sounds if the velocity exceeds the programmed range. In case of a problem, users may start an emergency purge by tapping the button in the centre of the screen.



Energy-saving

When the hoods are not in use, the system is programmed to safely reduce the air velocity. This also occurs when the lab is unoccupied. This mode, signalled by the "energy-saving" icon, allows for significant energy savings related to fresh air processing.

► A tested and improved **solution**

Regulvar recently decided to improve its control solution for critical environments such as laboratories, clean rooms and isolation rooms. In addition to adding new fume hood and lab monitors to its line of products, the company drew on its expertise to improve performance and versatility.

Today Regulvar offers its clients a turnkey solution that allows for seamless integration with thirdparty devices equipped with controllers based on a variety of protocols.

The designers benefit several equipment options, including Venturi valves, control or isolation dampers, and conventional variable air volume boxes.

Monitoring strategies are adapted to specific needs: rapid or normal action, automatic reset in case of a breakdown (open or closed, or current position), and monitoring based on air flow or pressure.

But the main advantage of Regulvar's solution is its verification tools—sensors that feed the system with actual data on air velocity and pressure relating to both the individual devices and the laboratory as a whole.

Regulvar Proven track record in controlling critical environments

Michel Harel, President of Regulvar Canada Inc., notes:
"Regulvar has been monitoring lab environments for a long time—since the era of pneumatic control, in fact. Today we offer one-of-a-kind digital solutions that are perfectly adapted to our clients' needs."

About 10 years ago, Regulvar decided to step up its activities in this sector. The company had the know-how and resources to address shortcomings in existing solutions on the market—for example, preset operation modes that did not adequately respond to functional objectives and solutions that were difficult to integrate into the building's automation system.

*A cyclotron is a subatomic particle accelerator



In this season of celebrations, we would like to offer our best wishes and our heartfelt thanks for your continued cooperation.

The team at Regulvar

► **Serving** Canadian laboratories

After completing a number of projects in Quebec and Ontario, Regulvar is now offering its services across Canada. Several organizations are already benefiting from our solution: the research laboratories of the Northwest Atlantic Fisheries Organization, the physics laboratory at Western University in London, Ontario, and the cyclotron* facility at the Thunder Bay Regional Research Institute.

Regulvar recently installed a system using a Delta Controls platform at the Department of Physics and the Centre for Cyclotron Sciences at the University of Saskatchewan. The university's previous system was unsatisfactory, since the data transfer was too slow and there was instability between the lab monitoring and building automation systems. The client was very interested in the solution implemented by Regulvar at other universities. With the new system in place, the laboratory operators find their tasks much easier and have access to a much larger volume of data.

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