



iC9000 intelligent Control System

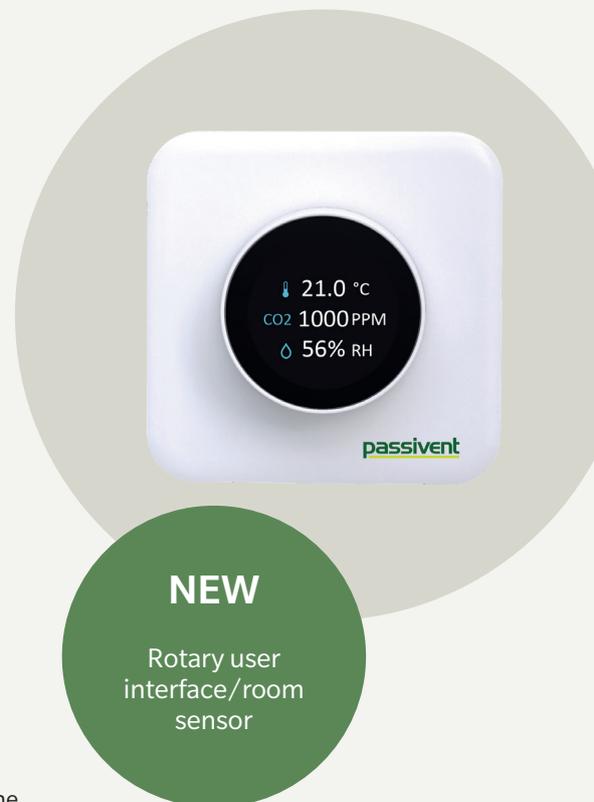
for natural and hybrid ventilation

The *iC9000* intelligent Control System is Passivent's latest generation of controls developed specifically to meet the requirements of its natural and hybrid ventilation systems.

It offers all the benefits of the *iC8000* system, in terms of energy and operational efficiency, multi-zone control and occupant comfort, but with added features and benefits that provide a more sustainable controls solution:

- A networkable, feature-rich user interface/room sensor called the Rotary.
- Continuous linking of the primary panel, secondary panels and Rotary interfaces/sensors means less requirement for field wiring.
- Remote monitoring and data logging options.

Using Passivent's own natural ventilation software, the *iC9000* can be used as a stand-alone system or integrated with a Building Management System via BACnet communication.



iC9000 intelligent Control System for natural and hybrid ventilation

The iC9000 regulates airflow as needed to the required zones of the building, dependent on the data received from the Rotary sensors. The system not only monitors air quality in real time but also reduces the burden on building services by modulating airflow as required using CO₂ and temperature-based demand control.



Features and benefits

iC9000 Control System

- **Reduced cable/labour costs** – the use of the iC9000 control system means there is a reduction in the field wiring costs compared to the iC8000 system. Savings can therefore be made on overall cable and labour costs for a construction project.
- **Remote monitoring option** – having an IP address or cellular router (min 4G) connected means that the iC9000 controller can be remotely accessed to look at set point adjustments, fault finding etc. This is a more sustainable and cost-effective solution than engineers having to travel to site.
- **Data logging option** – room temperature, CO₂ levels and external temperature can be monitored, enabling Passivent to look at how the building is performing and allows the building operator to be confident that their ventilation system is working as effectively as possible.

Rotary user interface/room sensor

- Delivers a fully networkable BACnet MS/TP interface which combines the room sensor and room override into a single unit with improved aesthetics.
- The rotating dial, menu options and push-to-select functions via a full LCD display with configurable readouts makes the user experience more intuitive.
- Incorporates a range of applications from a simple set point adjuster to a complete control interface.
- Provides in-built room temperature, humidity and CO₂ monitoring via BACnet.
- Features a halo LED light ring around the dial providing tri-coloured green, yellow and red indication for CO₂ level feedback and the monitoring of air quality in real time.
- Multiple Rotary units can be mapped to a natural ventilation control panel for use across multiple zones.

Typical room schematic (not for wiring purposes)

Showing temperature and CO₂ control, primary and secondary panels

