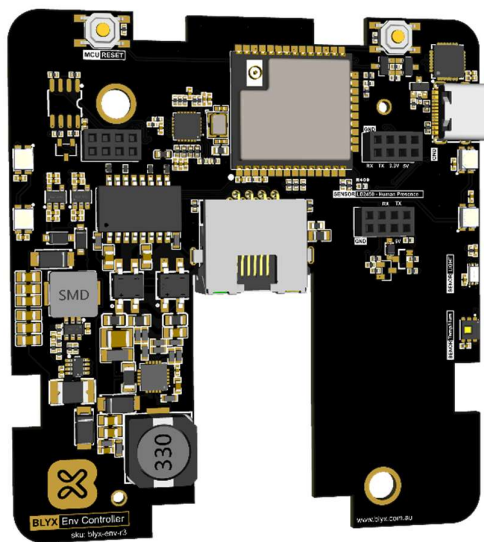




## Environment Controller

The Blyx Environment Controller monitors and manages key room conditions—such as temperature, humidity, and light—to help facilities run more smoothly. By continuously tracking these metrics, issues can be detected early (like a failed bathroom fan or broken AC), often before guests even notice.

Designed for flexibility, the controller supports modular add-ons that can be installed or removed as needed. This allows each room to be configured based on its purpose and the problems you want to solve—from reducing energy waste to improving guest comfort.



### Standard Sensors | Temperature, Humidity, and Light

These core sensors give real-time insight into room conditions, helping detect issues like extended humidity, lights left on, or signs of mould risk—so maintenance can step in before guests notice or equipment fails.

### Additional Modules

Add-ons can be tailored to the room's purpose:

- **IR Control** – Enables remote AC control and confirms function.
- **Human Presence** – Detects occupancy to reduce energy use and confirm guest arrival.
- **Acoustic** – Detects sound patterns for alerts or activity monitoring.
- **Air Quality** – Detects fumes or hazardous gases in enclosed spaces

All modules are interchangeable and easily installed or removed.

### System Integration

The controller works on its own or with the Blyx access system. When connected, RFID readers can use LED lights to show room status—like a blue light indicating someone is inside.

Each controller connects to the building switch via a single Cat6 cable, providing both power and data. Sensor readings are captured at frequent intervals to create an accurate digital snapshot of room conditions in real time.

[www.Blyx.com.au](http://www.Blyx.com.au)





## Environment Controller – Use Cases

### Mould Conditions

By analysing temperature and humidity trends, the system can detect conditions that increase mould risk—often linked to failed extraction fans or poor airflow.

If abnormal humidity patterns are detected—such as rising moisture in vacant rooms during hot days—the controller can trigger the AC to circulate air and reduce humidity. It can also flag extraction fan failures, helping prevent bathrooms from staying damp for too long.

### Night Shift Management

Managing night shift guests can be challenging, especially with constantly changing schedules. It's often unclear which rooms are occupied during the day, making it difficult to avoid disruptions like cleaning or maintenance.

With the human presence module, Blyx can detect occupancy in real time. This status can be displayed via LED colour on the RFID reader at the door and shown on the live facility map—giving staff a clear, bird's-eye view of which rooms are currently in use.

This allows teams to schedule work around sleeping guests and avoid unnecessary disturbances.

### Energy Efficiency

The IR module enables remote control of AC units—automated through Blyx, manually via the platform, or optionally available to guests through the Blyx App.

AC units can be set to switch off or run on airflow mode when rooms are unoccupied or unreserved, reducing energy waste. If a guest provides their work schedule, the system can adjust the AC to more efficient settings during periods of absence.



The IR module mimics a standard remote and doesn't override it—guests can still use the physical remote at any time. The Blyx App can also serve as a backup remote if the original goes missing or runs out of batteries.

Best of all, the IR feature works across most AC brands—perfect for sites with mixed systems.

