DAIKIN

DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

Replacements
Control systems

The heart of your HVAC equipment

Daikin360 Control Systems

Control systems are at the heart of any state-of-the-art HVAC-R equipment. By optimising performance, while maintaining comfort, a correct control system for your equipment can deliver substantial cost savings. **Daikin Control systems are capable of precisely maintaining your comfort needs in terms of temperature, humidity**, and **airflow** to create **ideal indoor environments** tailored to diverse applications in the commercial and industrial setting such as hotels, offices, shops, and infrastructure cooling. Along with the **traditional features** of temperature and humidity control, Daikin incorporates **advanced features** such as remote monitoring and energy efficiency which, along with preventive maintenance, can **extend the lifespan of your equipment** and **minimise downtime**.

Why do we need control systems?

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience:

- For **building owners**, it means easy and personalised control for the building occupants as well as integration to their centralised control systems.
- For **technical managers**, it means cloud access to all sites, with the possibility to benchmark and optimise performance.
- For **installers**, it means easy transfer of settings during commissioning, remote retrieval of errors and preventive alerts to save time on maintenance or interventions.

What can controls do for your specific business?

Hotel

Improved guest comfort is always a priority, with features such as guest control of basic room functions. Energy savings and optimisation are achieved through several mechanisms, such as key card, window contact integration and heat recovery within the different rooms. Additionally, Daikin can provide monitoring of energy consumption and hotel managers and installers can both benefit from online control for efficient management and maintenance.

Office

Control options for office applications offer automatic building-wide management which can co-exist with personalised localised control for office staff, ensuring full flexibility and comfort. Seamless integration into existing building management systems (BMS) optimises energy efficiency. The possibility to monitor and manage the energy consumption, also as zone control, is also available for individual sites. Online control facilitates remote management both for building managers and installer, while at the same time cater to larger organisations.

Data center

Daikin HVAC-R systems excel in infrastructure cooling applications. Automatic control ensures optimal cooling, while back-up operation guarantees 24/7 uninterrupted service for small server rooms. The duty rotation functionality maximises equipment lifespan, while the customised control possibilities safeguard equipment in technical cooling rooms.

Shop

Comprehensive control for shops including automatic system management, which is complemented by zone controls for a tailored and ultimate comfort. Seamless building management system (BMS) integration which optimises building performance. Energy consumption can be closely monitored and managed for optimisation through advanced control options, including free cooling possibilities. Multi-site management and online control empower shop managers and installers for efficient operation and a comprehensive preventive maintenance plan.

Industrial

Our control systems for all industrial applications provide maximum energy efficiency systems, outstanding reliability and performance as well as optimal serviceability. Thanks to the highly developed cloud possibilities and digital control possibilities features such as scheduling, 24/7 alarm management, and energy efficiency optimisation, our systems are capable of meeting the required uptime for strict industrial application requirements. Multi-site management and online control empower site managers as well as installers to optimise their sites for an efficient operation and a comprehensive preventive maintenance plan.

Gateways

Our different controller options are configured for the most strict of needs in terms of connectivity, including the implementation of Modbus, LonWorks, BACnet and KNX interfaces. With these options the following items are tackled:

Enhanced system control and monitoring

- **Data exchange:** Collected data can be used for performance analysis, trend identification, and fault detection, as required.
- **Optimised control:** By using data collection from the active systems, these can be controlled more efficiently, reducing energy consumption and costs.
- **Remote access and repairs:** These gateways enable remote monitoring and control of the equipment for site managers, end users and/or installers, depending on the application. This also allows for less engineering visits as sites can be monitored remotely and these visits can be optimised as a first diagnostic can be done before the technician is on site.
- All traffic runs over https and is initiated by the edge. There is no need to allow (unsolicited) incoming traffic.

Enhanced system integration

- **Seamless communication:** These protocols enable the equipment to communicate effectively with other building systems such as lighting, security, and energy management.
- **System expansion:** By supporting multiple protocols, products can be easily integrated into different building automation systems, allowing for future expansion as well as upgrades.

Indoor Air Quality refilter program

Guaranteeing a correct Indoor Air Quality is important within our systems. That's why Daikin offers a Refilter program for analysis, optimisation and imporvement of your HVAC system with a total focus on indoor air quality, thanks to our IAQ sensor.

- Indoor Air Quality sensor
- Indoor Air Quality audit
- Fresh Air program for optimisation of settings
- Customised action plan with improvement and countermeasures

Our experts offer a site visit with an IAQ oriented technical checklist. We support you with our expertise to verify the status of your HVAC system and give you a clear report of the condition of your A/C system, AHU, ducts, ventilation units and indoor units – as a Total Solution Provider. We identify an immediate set of actions that will improve the capability of your system to increase the fresh air in the indoor ambient and reduce the recirculation of dust.
The device connects to Daikin's monitoring platform and allows to monitor Indoor Environmental Quality levels as well as create periodical reports based on the data detected during the sensor's activity. It creates a video application to show indoor air quality levels live to your customers.

Remote monitoring services at Daikin

Remote monitoring of our commercial application equipment is the next step when managing multiple sites. By using enhanced control, monitoring and predictive logic, our Remote Monitoring solutions provide real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment as well as reduce the risk of unexpected issues.

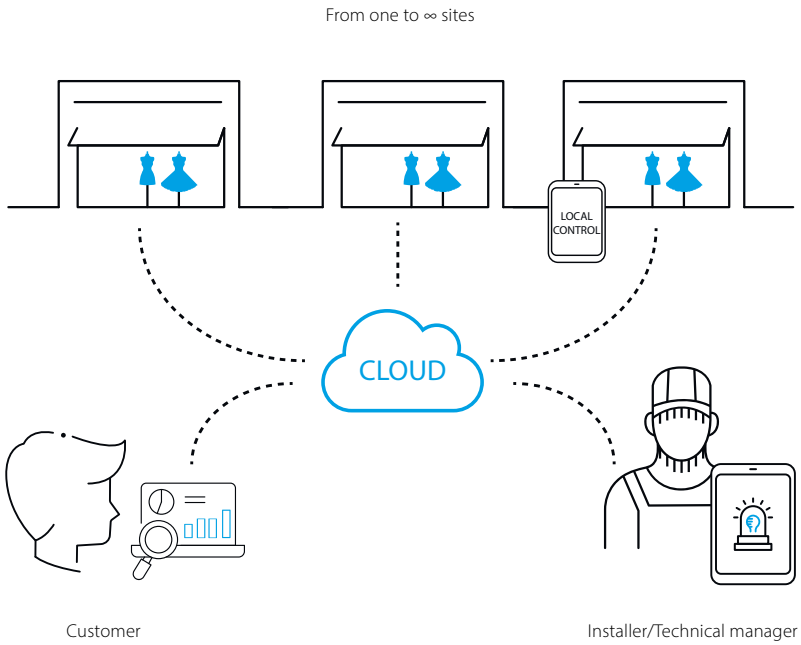
Our remote monitoring benefits are:

Easy control for multiple sites
- Remote control and manage sites remotely
- Floor plan control per site
- Multi-site access
- Permission-based access

Energy savings and sustainability
- Monitor energy consumption trends
- Smart control of systems to save energy
- Contribute to carbon neutrality

Connectivity and integration
- Various interfaces
- Advanced security

Monitoring and site management
- Limits the necessity for on-site control
- Minimises downtime and engineer call outs
- Monitoring of indoor air quality



Remote monitoring platforms

For commercial and industrial applications, Daikin works with two platforms for Remote Monitoring, depending on the equipment that you are using in your site:

Daikin Cloud Plus
is aimed mainly at VRV, Sky Air, Air curtains and ventilation products as a monitoring and site management platform. It can integrate lights and other facility management systems for full control of the site.

Daikin on Site
aimed at our Applied offering, is a multi-feature platform which targets chillers and/or AHUs.
It has the ambition to be a collaborative platform for all people managing the operation and maintenance for full site control.

Additional support services

- Energy engineering
- Engineering services
- System design & equipment selection
- Replacement
- Maintenance
- Project management & operator training
- Control systems / BMS systems integration
- Equipment & refrigerants removal & disposal

Daikin360

Integrated Service Solutions

We understand that your building is one of your company's most significant investments, and a cornerstone of growth and success. Our expertise in HVAC systems, delivered through **Daikin360 Integrated Service Solutions**, can help by creating an **ideal environment** and **quality air** that propels your people and customers forward. Plus, our **advanced energy-saving solutions** and **protective maintenance plans** can help you control your maintenance and operational costs. You can count on Daikin for **advanced technology**, **agility** and **reliability**.

Whenever, wherever, however you need us

Scan the QR code
to learn more about the Daikin360 service offerings

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