



It's Time You Experienced

ECLYPSE™

DISTECH
CONTROLS™

“A game-changer!” - ThermAir Integrated Technologies

“Something new in the industry!” - EWA Controls

“You just raised the bar...
in the whole industry.” - Columbus Temperature Control

“State of the Art!” - Air-Traxx



It's Time You Experienced

“It's cutting edge technology.” - Energy Control Technologies

“It elevates the systems beyond where
anybody is currently at.” - Enertemp



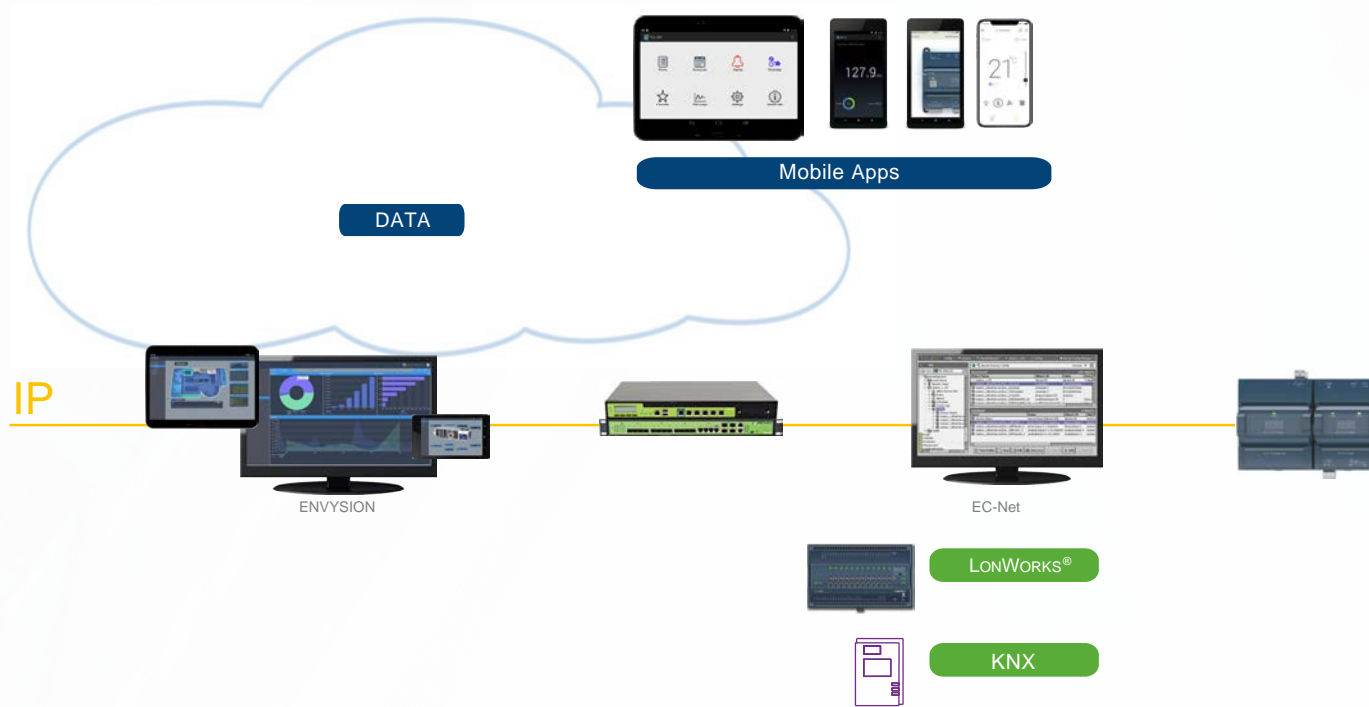
ECLYPSE™

ECLYPSE™ Connected BACnet/IP and Wi-Fi HVAC Product Series, and ENVISION responsive, web-based design and visualisation interface, provide powerful connectivity, and advanced control, monitoring and analysis, for your Internet of Things building.





Distribute IP Connectivity



Visualization, Enterprise Software
& Apps

Switch/Routers
Building IT

Integration,
Multiprotocol / Multi-location
& Data Normalization

Cent
E

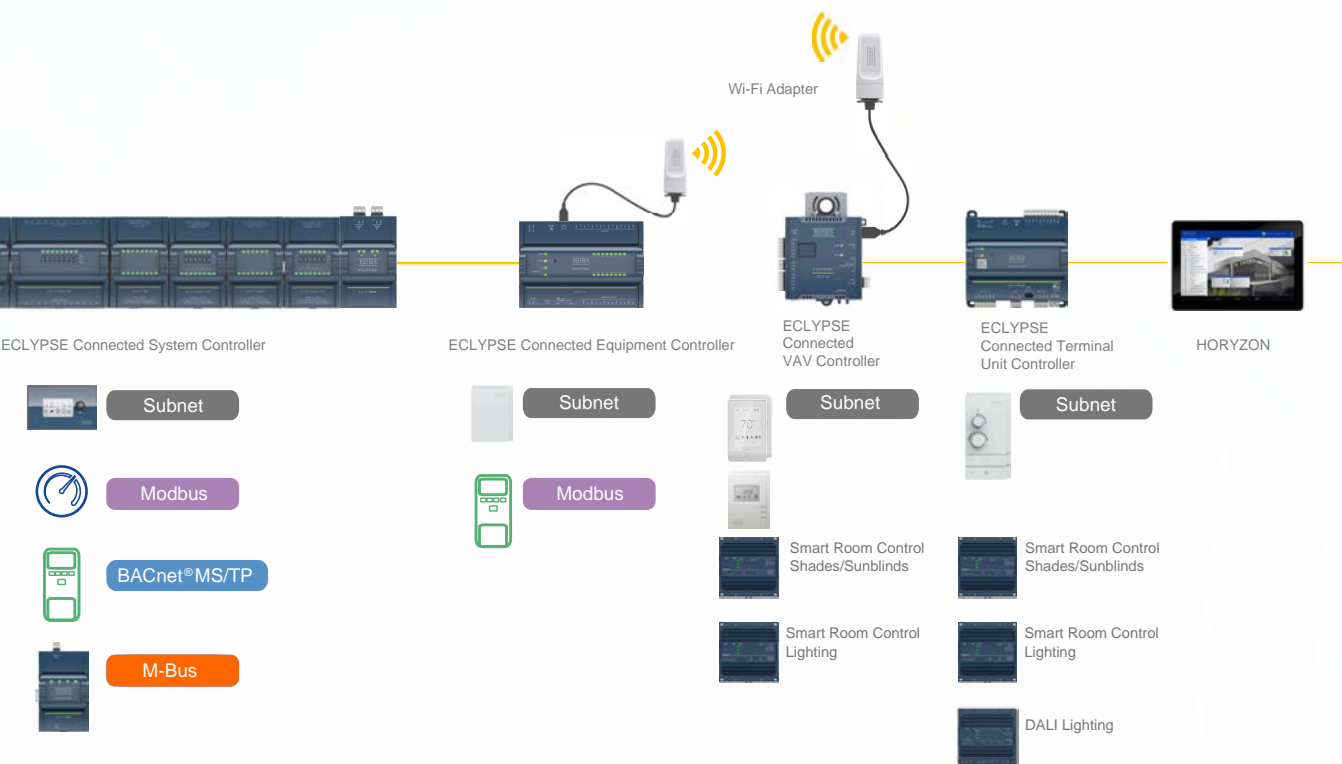
Simplified Installation and Maintenance

- No additional proprietary gateways or middleware
- Choose wired IP, Wi-Fi connectivity, or combine both on a same controller to tailor implementation throughout the building to the available IT infrastructure, architecture and layouts
- Eliminate fieldbus networks and the need to manage multiple networks: reduce cabling and other materials, and their associated costs of installation, maintenance and upgrade

Improved Performance

- Increased bandwidth and speed enables large amounts of data for advanced analytics, performance evaluation and trend logs
- Faster responsiveness when programming, creating and viewing graphics, and upgrading your system

Throughout Buildings



Central Plant & Mechanical Equipment Control

Air Handling & Roof Top Units, and Other Equipment

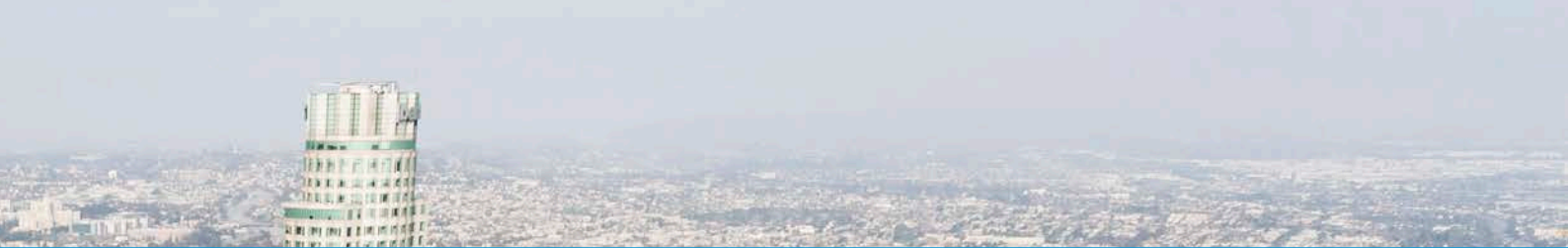
Terminal Equipment & Room Control

Distributed Intelligence

- IP connectivity from central plant to terminal equipment and room control to displays
- Each controller features advanced, built-in security features and authentication services, for robust IP-based implementation
- Direct IP or Wi-Fi Hotspot connection to your controller, using a PC or mobile device, for programming, commissioning, servicing and maintenance
- Controller-based hosting and access to ENVYISION, web-based system graphics, and visualisation of schedules, alarms, and trend logs, greatly improving maintenance and servicing

Decentralised Integration

- Embedded support of BACnet MS/TP routing to IP, and Modbus integration on each controller, to cost effectively connect meters, VFDs and other devices without additional gateways
- Leverage the RESTful API to facilitate the customisation and creation of your own mobile apps, dashboards and analytics tools



Choose ECLYPSE
For Your Next Projects!





BTL Listed as BACnet Building Controllers, featuring local schedules, alarms and trend logs.



All models available with embedded ENVYSION web-based graphic design and visualisation interface, for local hosting of application and monitoring graphics.



Simultaneous support of wired IP and Wi-Fi (access point, client, hotspot), including support of Wi-Fi bridge. Two Ethernet ports allow controllers to be wired in daisy-chain topology and enable an STP loop-free topology configuration for redundancy and increased reliability.



Embedded support of BACnet MS/TP routing to IP, and Modbus integration on each controller, to cost effectively connect meters, VFDs and other devices without additional gateways.



Provides unified HVAC, lighting and shades/sunblind control.



Advanced, built-in security features and authentication services, for robust IP-based implementation.



Reduce programming and commissioning time by over 25% with EC-gfxProgram, graphical programming interface for custom applications, or configure pre-loaded applications with dynamic graphics available in select models.



Daisy-chain support of Allure™ Communicating Sensor series.

■ ■ ■ Your ECLYPSE Controller Series



ECLYPSE Connected System Controller



ECLYPSE Connected Equipment Controller
ECY-303 Series

APPLICATION

- ✓ Ideal for central plant and mechanical equipment control, the ECLYPSE Connected System Controller is modular and scalable to effectively address any HVAC application: select the type and quantity of modules to meet your exacting requirements

- ✓ Designed to control small air handling unit, heat pump, fan-coil and chilled beam applications, as well as multi-site installations.
- ✓ Embedded pre-loaded apps for HVAC equipments

VISUALISATION

- ✓ Optional embedded ENVYSION, providing a completely autonomous solution for dedicated equipment control or small building control applications, without the need for additional supervisory devices or software for visualisation

- ✓ Embedded ENVYSION Viewer for local hosting of system-based graphics, and visualisation of schedules, alarms and trend logs directly from the controller

FEATURES

- ✓ **POWER SUPPLIES**
 - 24VAC/DC or 100-240VAC, repeatable power supply
- ✓ **CONTROL, AUTOMATION AND CONNECTIVITY SERVER**
 - 28, 48 or 320 points - with embedded ENVYSION and BACnet MS/TP support in option
 - Proven high-performance and power efficient single core-processor, providing scalable speed (above 1GHZ) for accelerated reading and control of points, and enhanced trending capabilities
 - Local trending, alarming and scheduling functions
- ✓ **INPUT/OUTPUT MODULES**
 - Select from 12 auto-addressable and hot swappable IO modules, with color-coded terminal blocks, and optional HOA switches
 - 1 RS-485 communication module enabling support of BACnet MS/TP and Modbus devices
- ✓ **COMMUNICATION MODULES**
 - RS-485 or M-bus

- ✓ Features a diversified IO count in a compact design and footprint for easy in-cabinet installation
 - 8 universal inputs
 - 4 x 24VAC digital outputs (TRIAC)
 - 2 universal outputs
 - 2 configurable outputs (24VAC TRIAC or universal)
- ✓ Operating temperature range suited for installation in outdoor equipment
- ✓ Select models support up to 3 Modbus RTU and TCP/IP devices to cost effectively integrate meters, VFDs, etc.
- ✓ Offers metering solution capabilities via optional M-Bus module



ECLYPSE Connected VAV Controller
ECY-VAV and ECY-VAV-PoE Series



ECLYPSE Connected Terminal Unit Controller
ECY-PTU/TU Series

- ✓ Control any variable air volume box application “out of the box”, with pre-loaded, configurable applications
- ✓ Embedded pre-loaded apps for VAV boxes

- ✓ Embedded ENVYISION Viewer for local hosting of system-based graphics, and visualisation of schedules, alarms and trend logs directly from the controller

- ✓ Robust and compact design with metallic pitot tubes and anchor points for improved sturdiness and lasting performance
 - 4 universal inputs with high precision 16-bit AD
 - 4 digital outputs (TRIAC)
 - 2 universal outputs
- ✓ Built-in differential pressure transducer featuring polarity insensitive/polarity-free connection
- ✓ Integrated damper actuator with brushless DC motor
- ✓ Model with Power over Ethernet - a single cable to provide both data and power, significantly simplifying installation and maintenance, and reducing related costs
- ✓ Offers metering solution capabilities via optional M-Bus module

- ✓ Designed to control terminal units such as fan coils, chilled beams, heat pumps, and reversible ceilings
- ✓ Supports our room control solution, for a unified, end-to-end solution for the control of HVAC, lighting and sunblind
- ✓ Embedded pre-loaded apps for terminal units

- ✓ Embedded ENVYISION Viewer for local hosting of system-based graphics, and visualisation of schedules, alarms and trend logs directly from the controller

- ✓ Select your controller from 4 models- according to your application and types of actuators (0-10V, floating, on-off, thermal valves or 6-way valves)
- ✓ Choose 100-240VAC or 24VAC power supply voltage
- ✓ Dedicated application outputs allow for direct wiring to valves and fans without requiring an external power source and additional relays
- ✓ Targeted application input types: sensor, digital and universal
- ✓ Offers metering solution capabilities via optional M-Bus module
- ✓ Compatible with cutting-edge user interfaces enhancing occupant experience

APPLICATION

VISUALISATION

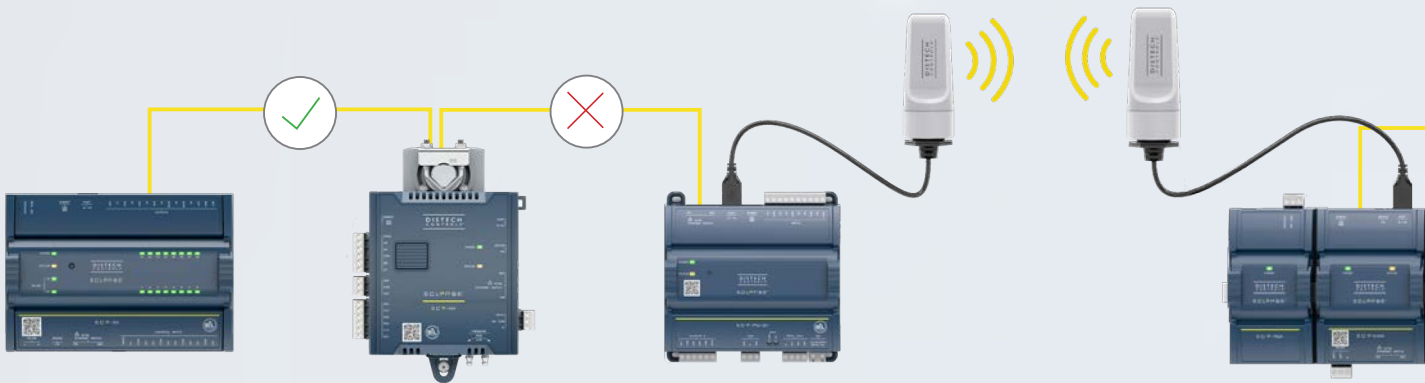
FEATURES

Empowered Connectivity The ECLYPSE Difference!

IP Wired Connectivity

ECLYPSE Controllers Feature Two Ethernet Ports for Wired IP Connection

- Wire in star or daisy-chain topology, to minimise wiring costs for home-runs back to the switch
- Unique integrated reliability features, including support of STP loop-free topology configuration for Connected System Controllers, and integrated fail-safe within terminal application controllers, allowing communication data to be relayed to the following controller on a daisy-chain even in case of a power failure
- Use the second port to connect a laptop for direct programming, configuration and commissioning.



Connect Two Wired IP Segments via Wireless Bridging

For even more implementation flexibility: configure a Wi-Fi Access Point on one of your IP-wired controllers to extend connectivity across large open spaces that do not allow for a wired IP configuration.

The ECLYPSE controller series utilise BACnet/IP and IT standards, delivering empowered IP connectivity and open integration with building management systems. Choose wired IP, Wi-Fi, or combine both on a same controller to suit the building's infrastructure, architecture and layouts.



IP Wi-Fi Connectivity

Support of Wi-Fi Connectivity Enabled with the Wi-Fi Adapter!

- Wi-Fi Client connection to the building's existing Wi-Fi network or to another controller's Wi-Fi Hotspot or Access Point
- Wi-Fi Access Point, extending the building's IP network to your Wi-Fi ECLYPSE devices
- Wi-Fi Hotspot, your own wireless area network, for wireless communication between the controllers, or with a mobile device or laptop for configuration, commissioning and servicing.





ENVYSION, web-based graphic design and visualisation interface, delivers the art and science of actionable visual knowledge and powerful user experience. As a “drag & drop” GUI development platform, ENVYSION provides a real-time, data-driven user interface, and graphical elements that enhance communication and analysis.

Design your Experience - Drive Results

- ✓ Reduce time and costs providing graphical elements that enhance communications and information including dashboards, charts, tables, reports, dynamic pages, and more
- ✓ HTML 5 platform, does not require any plug-ins or APIs for development or viewing
- ✓ Can be accessed onsite or remotely, from any device, increasing responsiveness to occupants
- ✓ Dynamic and interactive content such as floor layouts with heat/cool mapping, graphics with playback feature, Google maps and more
- ✓ Fully responsive design for an optimal viewing experience across a wide range of devices
- ✓ For your IoT building: easily connect to web services such as maps, traffic information, weather reports, and more

xpressENVYSION

Save up to 30% creating graphical user interfaces!



Step 1 Style Manager

Easily customise the look and feel of your project and reflect your client's brand



Step 2 Navigation Builder

Set up your project's navigation tree and nesting structure



Step 3 Page and Data Creator

Populate your pages and link data points



Step 4 Viewer

Preview your user interface and get ready to publish



One Visualisation Interface for All Platforms and Buildings



ENVYSION for EC-Net

- Expand capabilities of your existing EC-Net system
- Provides complete views of your BMS
- Custom-feel and natively responsive user interface



Embedded ENVYSION in ECLYPSE Connected System Controllers

- Completely autonomous solution for small buildings or equipment control applications



ENVYSION TechStudio

- Create or modify your ENVYSION projects anywhere and offline

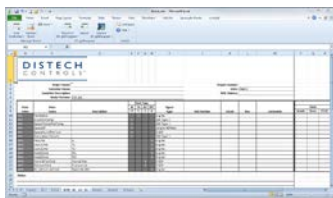


Embedded ENVYSION in ECLYPSE Connected VAV, Equipment and PTU/TU Controllers (Viewer)

- Host and view automatically generated graphics from preloaded applications: VAV, fan-coil units, chilled beams, etc.

Programming and Productivity Enhancing Tools

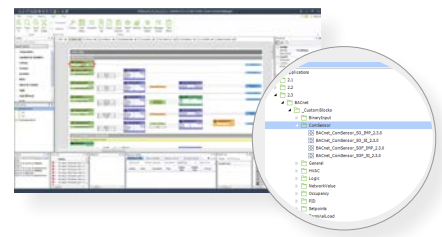
Distech Controls provides programming and productivity enhancing tools for use with our ECLYPSE Connected BACnet/IP and Wi-Fi HVAC Controllers, which help you deliver your project on time and under budget.



Design & Engineering



Installation & Configuration



Controller Programming Logic



xpressgfx Points



xpressNetwork Companion
xpressNetwork Utility



EC-gfxProgram

ECLYPSE Selection Tool

Build your own ECLYPSE Connected System Controller - select the right type, number and configuration of modules required.

xpressgfx Points

Prepare your submittal package and configure your I/O parameters. Create your points list and import in EC-gfxProgram.

xpressNetwork Utility

Increase efficiency with batch operations during installation and configuration, commissioning and maintenance.

xpressNetwork Companion

A mobile application to simplify your controllers identification and deployment over the IP network.

Build your custom programming sequence with EC-gfxProgram, starting from your xpressgfx Points list.

Utilise the gfxApplications code libraries and pre-engineered blocs or “convert” previously created control sequences.

Design your Configuration Assistant and define which variables should be configured or modified on-site, during integration.



Graphical User Interface & Commissioning



Commissioning, Maintenance & Servicing



ENVYSION &
xpressENVYSION

ENVYSION and xpressENVYSION

- embedded in an ECLYPSE Controller or for EC-Net.

Save up to 30% creating graphical user interfaces with xpressENVYSION, a workflow oriented profile within ENVYSION.

Configure pre-loaded applications with embedded ENVYSION and automatically generate a graphical user interface.



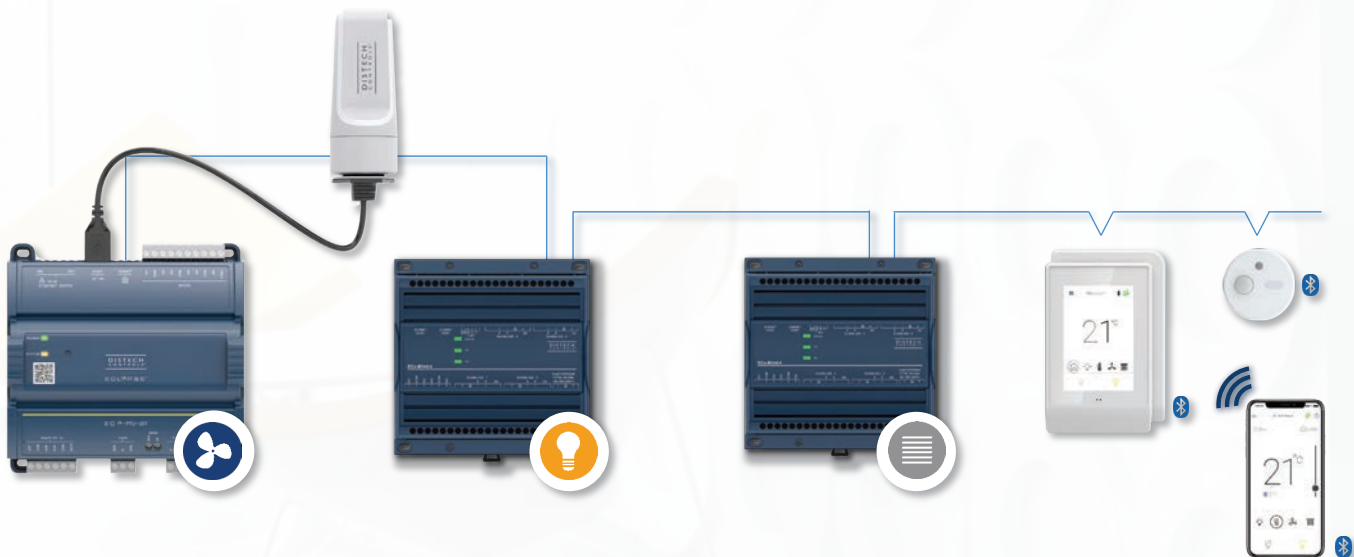
myDC Control
myDC AirBalancing

myDC Control mobile app allows to view, edit, and configure operating parameters of an HVAC system; while the color-coded icons provide at-a-glance indication of alarms and override conditions.

myDC AirBalancing mobile app provides convenient and secure access to only the VAV controllers of the building automation system to enable air balancing and to perform simple calibration.

More Value for Your ECLYPSE Solution

Smart Room Control Solution



Distech Controls' Smart Room Control Solution is a unified system for the control of HVAC room terminal equipment, lighting, and sunblind. This solution allows you to achieve the highest levels of comfort for occupants while increasing operating cost savings, from installation time

and wiring/material requirements to energy consumption. It is a unique, modular solution designed for local or room applications, such as offices, open spaces, patient rooms, hotel rooms or classrooms.

□ ECLYPSE Sky Ecosystem



my PERSONIFY

Easily customise all your comfort settings directly from a mobile device for an enhanced occupant experience.

The app uses Bluetooth® low energy technology providing a local connection to the Allure UNITOUCH and EC-Multi-Sensor-BLE.



How can your building enhance occupant experience?



Allure UNITOUCH

State-of-the-art touchscreen user interface



EC-Multi-Sensor-BLE

One discrete device sensing



□ Allure™ Communicating Sensors



UNITOUCH

The Allure UNITOUCH is an elegant and occupant focused interface that allows wireless control of room comfort parameters using my PERSONIFY mobile application.



EC-Smart-Comfort

Versatile communicating room sensor, providing precise temperature sensing, lighting and sunblind control and other occupant functions.



EC-Smart-Air

Combining precise environmental sensing, including temperature, humidity and CO₂, in a discrete and alluring enclosure.

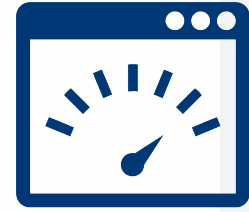


EC-Smart-Vue

Advanced communicating sensor with four integrated sensors: temperature, humidity, CO₂ and motion. Features innovative ECO-Vue™ leaf pattern.

□ RESTful API

For Your IoT Building - Create and Customise Your Own Interface!



Facilitate data exchange with our RESTful API and provide unique opportunities for value-added services, with the ever expanding range of available Internet of Things building management and tenant services applications.

A documented RESTful API for ECLYPSE Connected Controllers allows the creation of custom mobile apps, dashboards and/or analytics tools.

□ Displays



HORIZON

IP-based Touchscreen Display

From mechanical rooms to small building applications, allows system integrators and facility managers to access, view and engage with operating parameters of your ECLYPSE system for simplified commissioning, operations and troubleshooting.



ECx-Display

Streamlined Mechanical Room Display

Managers and technicians will benefit from this powerful, user-friendly color backlit LCD display, providing convenient access to important system data in real time.

□ Technical Mobile Apps



myDC Control

Quickly view, edit, and configure operating parameters of an HVAC system; while the color-coded icons provide at-a-glance indication of alarms and override conditions.



myDC AirBalancing

Designed to simplify the task of air balancers by enabling them to perform the entire Variable Air Volume (VAV) air balancing process via their mobile device.



xpressNetwork Companion

The integrated QR code reader can be used on ECLYPSE controllers to facilitate project deployment and easily locate your ECLYPSE controllers on your network.

“Wow!” - Facio Corporation

“Distech Controls has created
their own trend.” - Controls PTY

“Incredible!” - Tekplan Solutions Florida

Experience it at www.distech-controls.com/ECLYPSE

“Nobody has anything close to this!” - Therma Corp

“I think the future
looks very bright.” - System One Control



Connecting people with intelligent building solutions for better health, better spaces, better efficiencies.

Distech Controls connects people with intelligent building solutions through our forward-thinking technologies and services. We partner with customers to deliver innovative solutions that can provide better health, better spaces, and better efficiencies. Our passion for innovation, quality and sustainability guides our business, which serves multiple market segments through worldwide business divisions, service offices and a superior network of Authorized System Integrators and Distributors. Distech Controls, Inc. is a subsidiary of Acuity Brands Lighting, Inc.



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CONTROLS™

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