



# It's Time You Experienced ECLYPSE™

**DISTECH**  
CONTROLS™

an **AcuityBrands** company

“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*



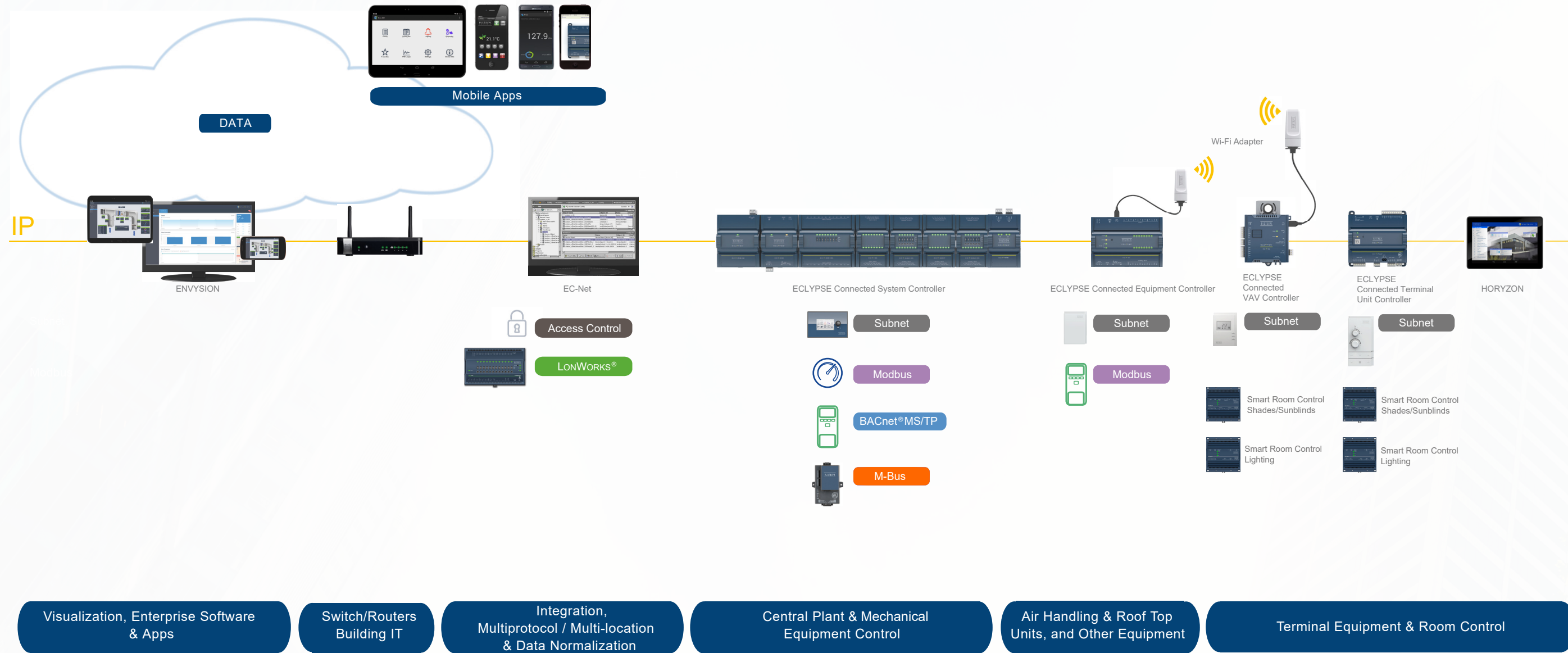
ECLYPSE™

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





# Distribute IP Connectivity Throughout Buildings



## 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

## 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 ENVISION, web-based system graphics, and visualization of schedules, alarms, and trend logs, greatly improving maintenance and servicing

## Decentralized 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 customization 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 visualization 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.



Support of Smart Room Control solution, for 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.

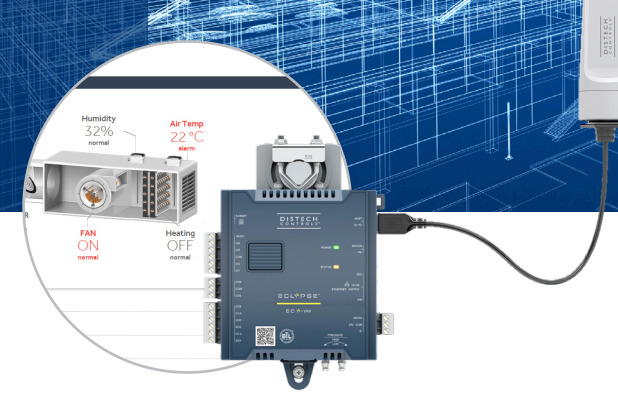
# Your ECLYPSE Controller Series



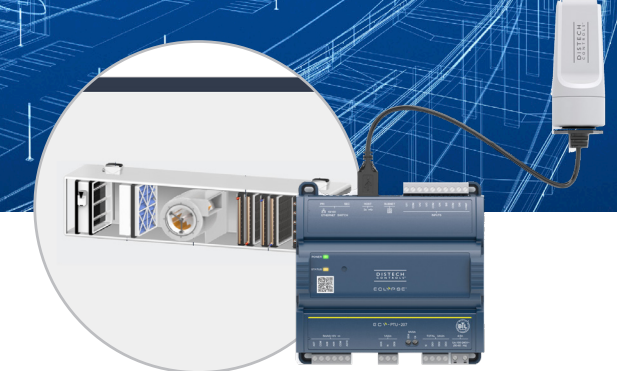
ECLYPSE Connected System Controller



ECLYPSE Connected Equipment Controller  
ECY-303 Series



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



ECLYPSE Connected Terminal Unit Controller  
ECY-PTU/TU 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 rooftop units and small air handling units, as well as heat pump, fan coil and chilled beam applications
- ✓ Embedded pre-loaded apps for HVAC equipments

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

- ✓ Designed to control terminal units such as fan coils, chilled beams, heat pumps, and reversible ceilings
- ✓ Embedded pre-loaded apps for terminal units

APPLICATION

VISUALIZATION

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

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

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VISUALIZATION

FEATURES

- ✓ **POWER SUPPLIES**
  - 24VAC/DC or 100-240VAC, repeatable power supply
- ✓ **CONTROL, AUTOMATION AND CONNECTIVITY SERVER**
  - 28, 48 or 320 points - with embedded ENVYISION 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

- ✓ 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.

- ✓ 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

- ✓ 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

FEATURES



LEARN MORE

# Empowered Connectivity The ECLYPSE Difference!

The ECLYPSE controller series utilize 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 Wired Connectivity

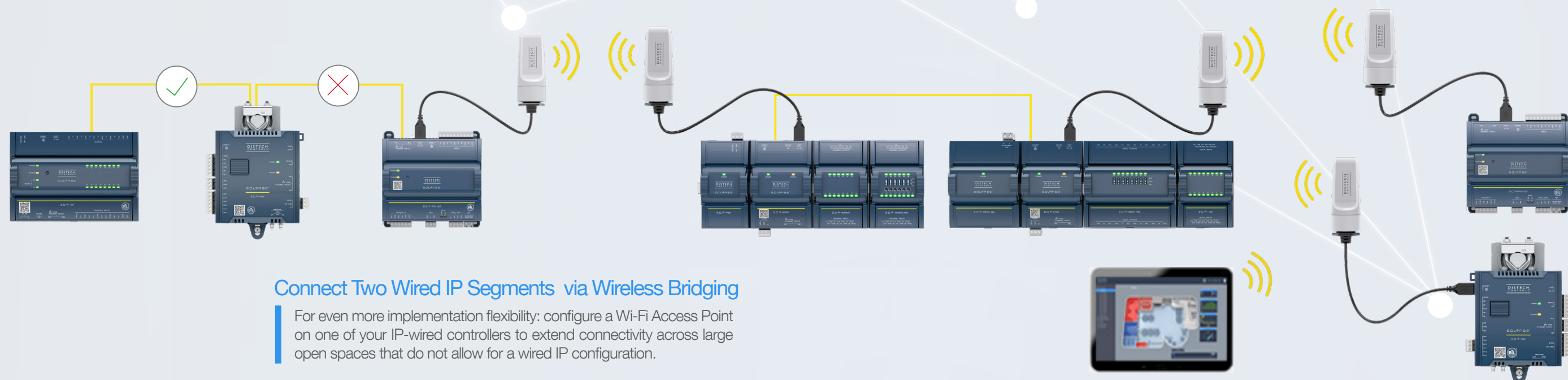
ECLYPSE Controllers Feature Two Ethernet Ports for Wired IP Connection.

- Wire in star or daisy-chain topology, to minimize 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

## 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



### 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.



ENVYSION, web-based graphic design and visualization 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.

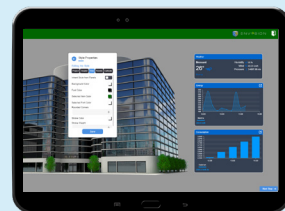


## Design your Experience - Drive Results

- ✓ 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

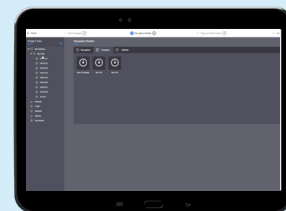
### xpressENVYSION

Save up to 30% creating graphical user interfaces!



Step 1  
Style Manager

Easily customize 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 Visualization Interface for All Platforms and Buildings



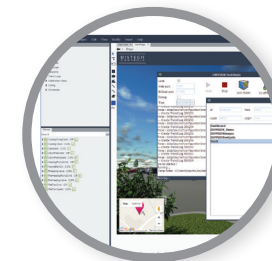
### ENVYSION for EC-Net

- 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

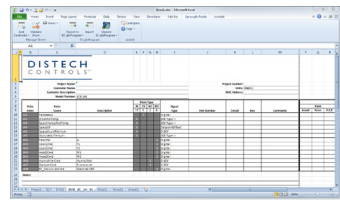


### Embedded ENVYSION in ECLYPSE Connected VAV and PTU/TU Controllers (Viewer)

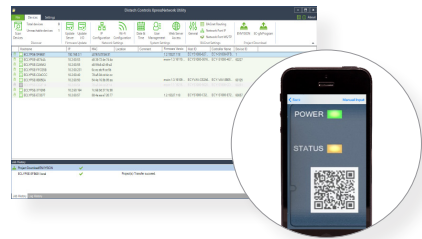
- Host and view automatically generated graphics from preloaded applications: VAV, fan-coil units, chilled beams, etc.

# Programming and Productivity Enhancing Tools

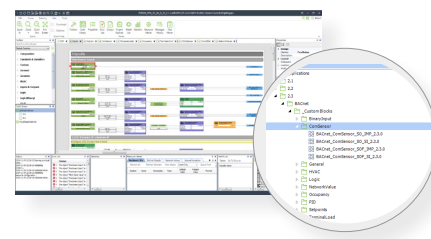
Distech Controls provides programming and productivity enhancing tools for use with our ECLYPSE Connected BACnet/IP and Wi-Fi HVAC Controllers, which help you deliver your project on time and under budget.



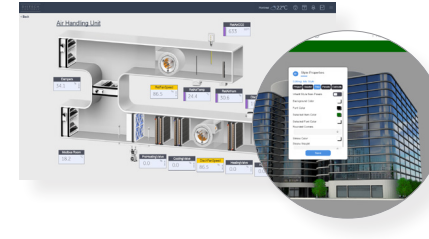
Design & Engineering



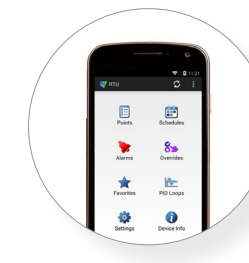
Installation & Configuration



Controller Programming Logic



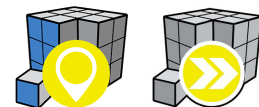
Graphical User Interface & Commissioning



Commissioning, Maintenance & Servicing



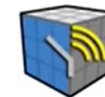
xpressgfx Points



xpressNetwork Companion  
xpressNetwork Utility



EC-gfxProgram



ENVYSION &  
xpressENVYSION



myDC Control  
myDC AirBalancing

**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 & deployment over the IP network.

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

Utilize 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.

**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** 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.

Watch Our Videos!



xpressgfx Points



xpressNetwork Utility



Configuration Assistant



xpressENVYSION



# More Value for Your ECLYPSE Solution

## Displays



**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.



**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.

## Smart Room Control Solution



Distech Controls' Smart Room Control Solution is a unified system for the control of HVAC room terminal equipment, lighting, and shades/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, dorms and military housing.

## Allure™ Communicating Sensors



**EC-Smart-Vue**

Advanced communicating sensor with four integrated sensors: temperature, humidity, CO<sub>2</sub> and motion. Features innovative ECO-Vue™ leaf pattern.



**EC-Smart-Comfort**

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



**EC-Smart-Air**

Combining precise environmental sensing, including temperature, humidity and CO<sub>2</sub>, in a discrete and alluring enclosure.

## □ 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.



Smart-Sense Room Control

Occupants can view or set comfort parameters at all times, from the convenience of a smartphone or tablet.



LEARN MORE

“Wow!” - *Facio Corporation*

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

“Incredible!” - *Tekplan Solutions Florida*

Experience it at [www.distech-controls.com/ECLYPSE](http://www.distech-controls.com/ECLYPSE)

## □ RESTful API



For Your IoT Building - Create and Customize 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.

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

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



**DISTECH  
CONTROLS™**

## Innovative Solutions for Greener Buildings™

An innovation leader in energy management solutions, Distech Controls provides unique building management technologies and services that optimize energy efficiency and comfort in buildings, while reducing operating costs.

We deliver *Innovative Solutions for Greener Buildings™* through our passion for innovation, quality, customer satisfaction, and sustainability. The company serves multiple market segments through its worldwide business divisions, service offices and a superior network of Authorized Partners. Distech Controls, Inc. is a subsidiary of Acuity Brands Lighting, Inc.



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