# enteli**WEB**®

Software: Enterprise Facility and Energy Management

Description

enteliWEB is a web-based application that connects all your facilities and centralizes building management operations, site engineering and energy analytics.

View your building your way by creating your own personal dashboards. Whether you are an executive, an energy manager or a building operator, the user experience in enteliWEB can be tailored to meet your exact needs.

▶ **Energy Analytics** inside of enteliWEB enables you to turn the existing data and sensors inside your building into virtual meters, and manage energy consumption down to the zone and equipment level. This software-based approach gives you a complete level of knowledge at a fraction of the cost of installing sub-meters.

▶ **Engineering Tools** in enteliWEB allow you to create, edit and save objects, modify system graphics and back up databases. Work on-site or connect remotely using the modern-looking front-end.

▶ **Centralize Facility Management** and make it easy to integrate scheduling, alarm management and operations. Connect to all of your buildings under a single login without having to network everything together. Track all building automation system (BAS) changes by service personnel, partner technicians and facility managers in enteliWEB.
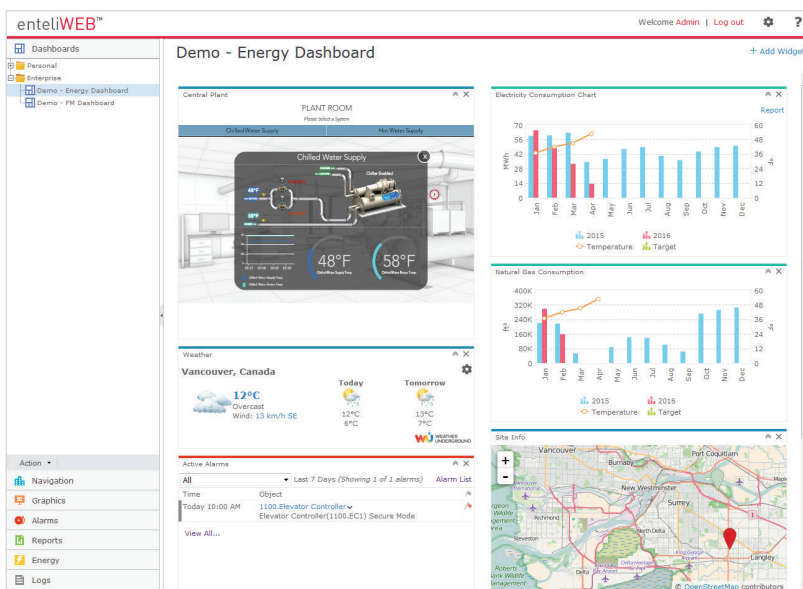
Specifications
BACnet Protocol Rev 14

BACnet Device Profile
Advanced Operator Workstation (B-AWS)

Server Operating System
Microsoft® Windows Server® 2016
Microsoft Windows Server® 2012
Microsoft Windows Server® 2008
Microsoft Windows® 7
Microsoft Windows® 8
Microsoft Windows® 10

Server Virtualization
VMware® vCenter Server™
Microsoft Hyper-V®
Microsoft Azure™
Amazon® EC2®
Rackspace® Cloud Server™

Client Operating System
Microsoft Windows Server 2016
Microsoft Windows Server 2012
Microsoft Windows Server 2008
Microsoft Windows 7
Microsoft Windows 8
Microsoft Windows 10

OS X v10.4 and higher

Client Browser
Windows Internet Explorer® 9 and higher
Firefox® 20 and higher
Google Chrome™ 20 and higher
Safari® 6 and higher for Mac
Microsoft Edge

ΔELTA

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enteliWEB Energy

enteliWEB Energy is an enterprise energy management package that makes it easy for anyone to understand the energy usage of their building.

Leveraging the rich dashboard interface of enteliWEB, you have the tools to view your system's energy usage, set target energy goals and compare your energy usage against historical baselines.

▶ **Local or Cloud Applications.** enteliWEB Energy is the only energy analytics solution that scales from locally installed dashboards and reports to powerful cloud-based analytics.

▶ **Virtual Meters.** Find out exactly which building system is consuming too much energy without having to install costly wired meters. Virtual Meters utilize sensors and the data already gathered by the building automation system to track the energy consumption of every piece of equipment in your building, giving you unprecedented visibility into your consumption profile. You can also validate the calculated virtual meters with upstream utility meters.

▶ **Intuitive Dashboards.** These interactive dashboards allow you to analyze and breakdown usage to find energy savings. You can also create energy reports, and send and receive them by email.

▶ **Alerts and Insights.** Simple alerts to analytics-based Insights warn you in advance of potential consumption overages. Both alerts and Insights are annunciated in enteliWEB and can also be set up for email notification.
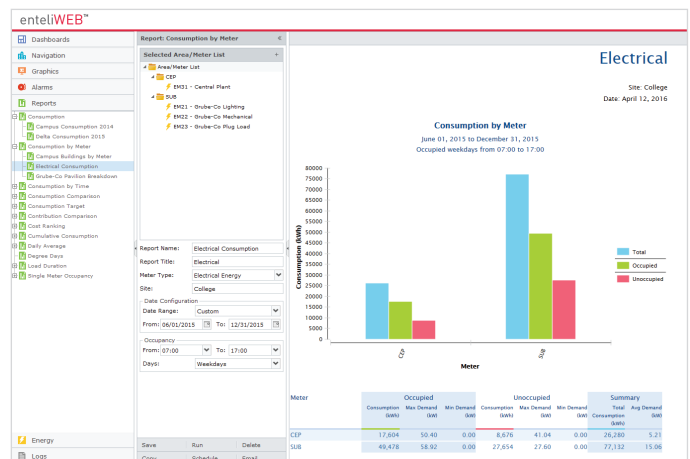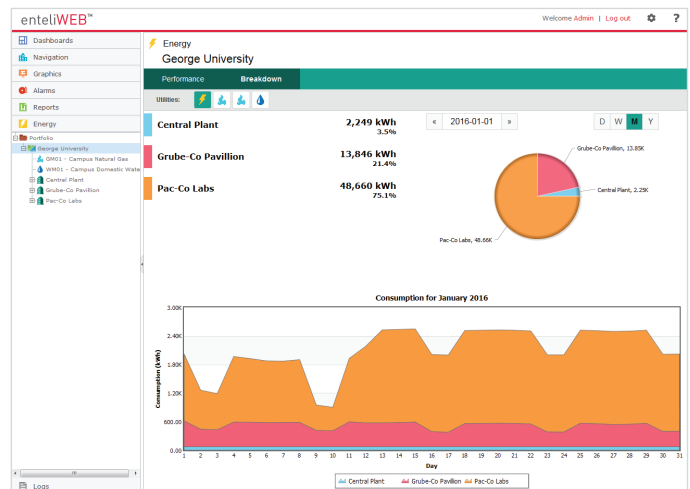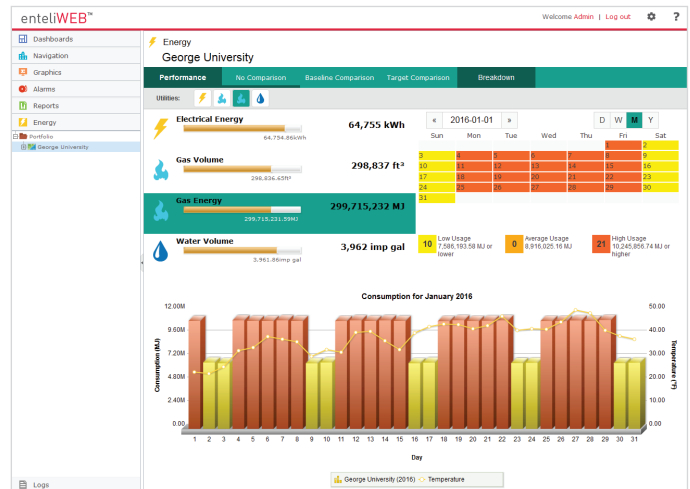
enteliWEB®

Visualizing Your Building

enteliWEB makes your data more accessible by presenting information in a visually attractive and user-friendly way.

▶ **Enterprise Dashboards.** Provide high level information in simple graphical formats to help manage the facility's key performance indicators (KPIs).

▶ **Personal Dashboards.** Personal dashboards are an experience you create yourself. By mixing and matching widgets, each user gets their own personalized dashboard to keep an eye on things that matter.

▶ **System Dashboards.** Make operating a facility easy by aggregating system graphics, alarm management, energy information and more into a single dashboard screen.

▶ **Navigator.** Automatically scans the BACnet network and presents devices in a logically arranged network tree. BACnet objects can be monitored and commanded directly from Navigator, or opened from Navigator to change the configuration details.

▶ **enteliVIZ™ Graphics.** Create HTML5-based intelligent visualizations and equipment graphics in your web browser. Use them in dashboards alongside other widgets, or as full-page standalone graphics.

▶ **Mobile Friendly.** Dashboard and object pages are optimized for viewing on your smartphone or tablet. Whether you just want an overview, or you need to override a point, dashboard-driven navigation makes it easy to drill down from high-level views to specific BACnet objects. Finger-friendly buttons and large text mean you don't have to pinch-and-zoom to view content.

▶ **Multiple Language Display.** Support your stakeholders in the language that they are most comfortable using. enteliWEB's user-interface can be displayed in one of 22 world languages by selecting the language preference in each user account.

▶ **Building Automation Reports.** Gather information about your building by querying controllers on the network and displaying them in professional-looking reports. Reports can be converted to multiple file types, such as .pdf and .xlsx and emailed automatically on a schedule.
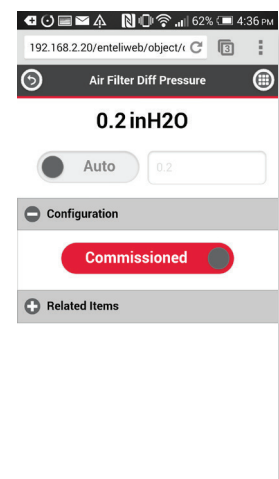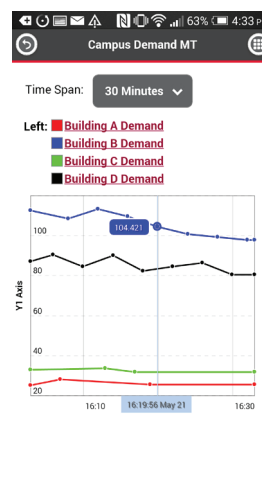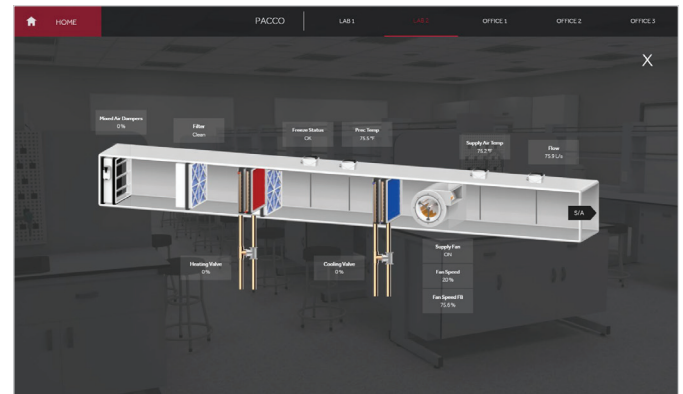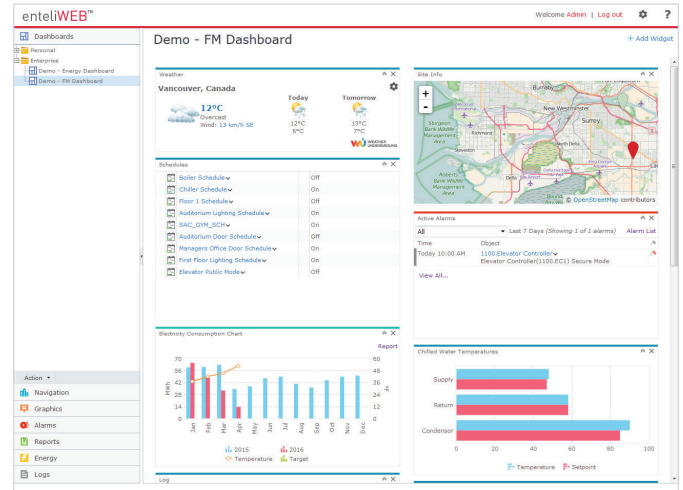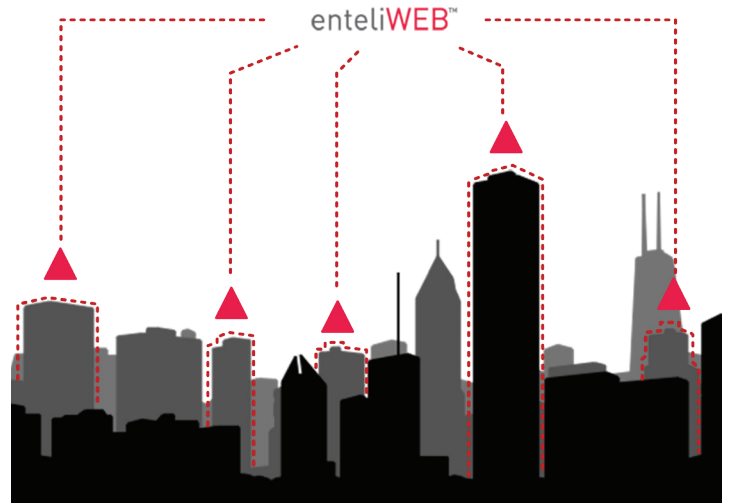
enteli**WEB** ®

Centralizing Facility Management

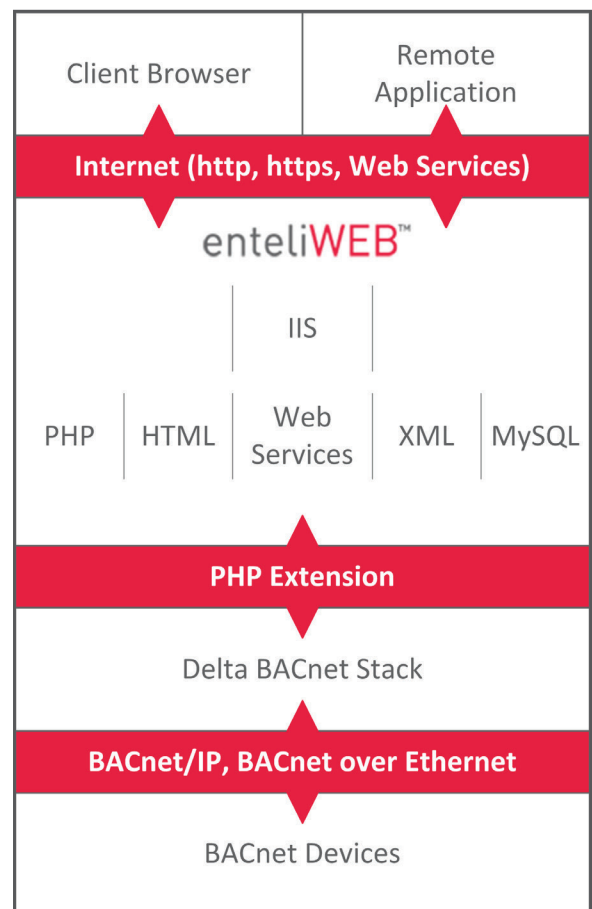enteliWEB provides you the tools to manage multiple sites more effectively.

▶ **Single Login.** Manage multiple sites using a single login. No need to worry about duplicate addresses or networking everything together. All you need is an IP address for each site.

▶ **Retain Supervisory Control** of your entire portfolio of BACnet sites. Leave the other vendor's front end on-site while centralizing your alarm management, scheduling and energy analytics with enteliWEB.

▶ **Version Independent Software.** Allows organizations to operate an entire WAN without having to worry about maintaining different firmware versions in the hardware.

▶ **Restore and Backup.** Restore your entire BAS to an earlier state or quickly find a specific backup of a device. Schedule daily, weekly or monthly backups across devices on multiple sites.

Platform for Innovation

enteliWEB's suite of developmental tools allow you to create mobile apps, customize user interfaces and integrate third-party software.

▶ **API Documentation Available.** The enteliWEB application programming interface (API) is well-documented, so that you can easily create custom modules, widgets and interfaces to third-party software.

▶ **BACnet Web Services.** Allow remote applications, such as mobile apps or business systems to communicate with enteliWEB.

▶ **Alarm Module.** The alarm module allows alerts and alarms from non-BACnet systems to be annunciated and managed within enteliWEB.

▶ **Open Source Reporting Package.** Design custom reports in enteliWEB using an industry standard open source report package.

▶ **ODBC Driver.** Integrate the building automation system with business-level software.

enteli**WEB**™

Client Browser	Remote Application
Internet (http, https, Web Services)	

enteli**WEB**™

		IIS		
PHP	HTML	Web Services	XML	MySQL

PHP Extension

Delta BACnet Stack

BACnet/IP, BACnet over Ethernet

BACnet Devices

enteliWEB®

Alarms

enteliWEB has a robust alarm management system that provides a detailed look at the issues and problems that come up on all your sites.

▶ **Comprehensive Alarm Management.** Includes intelligent visualizations, alarm assignments and operator comments on one screen. Powerful filtering, emailing and priorization make enteliWEB alarm management effective even on your largest sites.

▶ **Alarm Widgets.** Can be added to any dashboard for a quick summary of specific data types. The maps widget uses pushpins on a map of your building locations to indicate the number and severity of alarms. The alarm list widget shows the active alarms for specific equipment and the widget can be added to system dashboards.

Audit Log

Audit logs provide the ability to track changes made to the system. The powerful filtering and timeline chart make it easy to find the information you're looking for, including manual changes to outputs, alarm history and any other changes made by the system's users.

User Permissions

▶ **User/Group Permissions.** Permissions give you the ability to assign roles and determine which BACnet objects and visualizations a user can see and interact with.

▶ **LDAP.** Integrate users from LDAP servers so that IT can control user access to enteliWEB.

▶ **Multi-Language Support.** Gives each user the option to select the language they want to use throughout enteliWEB.

enteliWEB®

Software: Enterprise Energy Management

Ordering
enteliWEB is available in 200, 500, 2500, and Enterprise editions.
All editions and add-ons include 1-year software maintenance subscription.

eWEB-200

Includes	200 I/O, Multiple Sites	
Select add-ons	eW200-EV	enteliVIZ Graphics
	eW200-KEE	Energy management
	eW200-VM	enteliWEB on an offline virtual machine
	eW200-API	Web services, mobile app, interface API and ODBC Driver

eWEB-500

Includes	500 I/O, Multiple Sites	
Select add-ons	eW500-EV	enteliVIZ Graphics
	eW500-KEE	Energy management
	eW500-VM	enteliWEB on an offline virtual machine
	eW500-API	Web services, mobile app, interface API and ODBC Driver

eWEB-2500

Includes	2500 I/O, Multiple Sites	
Select add-ons	eW2500-EV	enteliVIZ Graphics
	eW2500-KEE	Energy management
	eW2500-VM	enteliWEB on an offline virtual machine
	eW2500-API	Web services, mobile app, interface API and ODBC Driver

eWEB-Ent

Includes	5000 I/O (expandable with AddOns), Multiple Sites	
Select add-ons	eWEnt-EV	enteliVIZ Graphics
	eWEnt-KEE	Energy management
	eWEnt-VM	enteliWEB on an offline virtual machine
	eWEnt-API	Web services, interface API and ODBC Driver
	eWEnt-2500IO	2,500 I/O point add-on
	eWEnt-25kIO	25,000 I/O point add-on
	eWEnt-UnLtd	Unlimited I/O point add-on
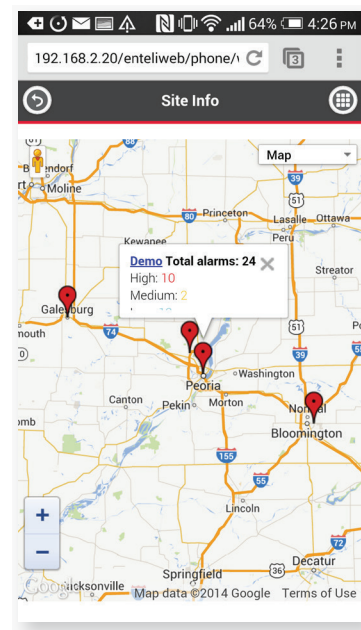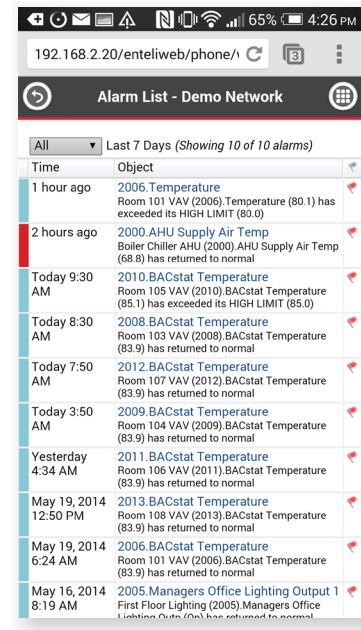
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Updated September 2017

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Delta Electronics (USA) Inc. | 2925 E. Plano Parkway, Plano, TX 75074 | Phone: 469-330-9100 | Sales.US@deltaww.com

O3-DIN

O3-DIN-SRC

Description

The O3-DIN-SRC is a fully programmable native BACnet® building controller. As a primary integration engine of the O3 system, the O3-DIN-SRC contains memory storage and external communication ports, as well as the control logic for the expansion modules. The O3-DIN-SRC can support up to 4 expansion modules.

The O3-DIN-SRC supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP and Delta LINKnet.

Application

The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The O3 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

The O3-DIN-SRC single room controller is ideal for cost-sensitive applications where core features and single serial port connectivity are required.

Features

▶ Fully programmable

▶ BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports

▶ Dual Ethernet ports

▶ Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.

▶ Fault detection and diagnostics

▶ Firmware upgrade and database load/save over the network

▶ LED indicators for device status, NET and Ethernet ports

▶ USB expansion ports

▶ DIN rail mountable (EN 50022-35x7.5)

Specifications

Specifications
BACnet Protocol Rev 14

BACnet Device Profile
BACnet Building Controller (B-BC)

Device Addressing
Software addressed

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 2 W typical (7 W max)
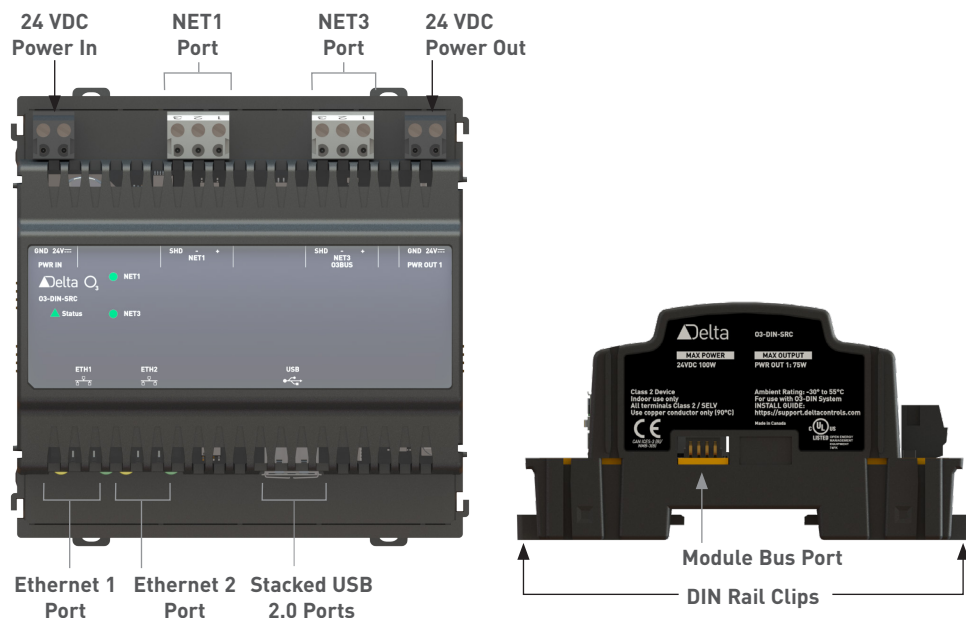24 VDC, 100 W max output fully loaded

Power Out
75 W max

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Updated 13 December 2018_r

Delta
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O3-DIN

O3-DIN-SRC

24 VDC Power In **NET1 Port** **NET3 Port** **24 VDC Power Out**

Ethernet 1 Port **Ethernet 2 Port** **Stacked USB 2.0 Ports**

Module Bus Port

DIN Rail Clips

Order the O3-DIN-SRC with one or more modules or hubs:

Base Unit

O3-DIN-SRC	CPU base unit: 2 network ports, 2 Ethernet ports, 1 power output, Modbus RTU, NFC

Modules and Hubs

O3-DIN-4F4xP	FET I/O module: 4 universal I/O, 4 FET binary outputs
O3-DIN-8xP	I/O module: 8 universal I/O, input (0–10 V, 0–5 V, 10K) or output (20 mA source, 10 mA sink)
O3-DIN-ACCESS	Access module, single door support
O3-DIN-DALI	DALI lighting module: DALI interface, 100 mA power output
O3-DIN-PoE	Power over Ethernet module
O3-DIN-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
O3-HUB	Sensor hub (temperature, humidity, light, motion, Bluetooth, LED ring, microphone and speaker) with mounting plate
O3-HUB-En868	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 868 MHz, LED ring, microphone and speaker) with mounting plate
O3-HUB-En902	Sensor hub (temperature, humidity, light, motion, Bluetooth, EnOcean 902 MHz, LED ring, microphone and speaker) with mounting plate

Specifications (Continued)

Technology
Arm® Cortex®-A8
32-bit 600 MHz RISC CPU
256 MB DDR3L RAM
4 GB eMMC flash memory
Real-time clock
Supercapacitor power backup for RTC and CPU

Communication Ports
2 Ethernet (10/100-Base T)
BACnet/IP, BACnet over Ethernet

1 RS-485 port supporting up to 4 devices with the following protocols:
    BACnet MS/TP up to 76800 bps
    Delta LINKnet up to 76800 bps
    Modbus RTU up to 115200 bps

1 O3BUS port (CAN-based) supporting up to 2 O3-HUB devices

2 USB 2.0 ports

NFC, passive, two-way, short range

Ambient Rating
–30°C to 55°C (–22°F to 131°F)
10% to 95% RH (non-condensing)

Dimensions
108 × 111 × 58 mm
(4.25 × 4.37 × 2.28 in.)

Weight
193 g (0.425 lb)

Enclosure Protection Rating
IP20

Compliance
CE
FCC

Listings
UL 916 Listed

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O3-DIN

O3-DIN-SRC

Power Supplies

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC

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O3-DIN

O3-DIN-8xP: 8 Universal I/O Module

Description

The O3-DIN-8xP is an I/O module for the O3-DIN system. Its 8 universal points can be configured to create the exact combination of inputs and/or outputs for a given application. When expansion is needed in the future, it's as easy as adding more modules to an existing system.

Application

The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The O3 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

Features

▶ 8 Universal points that can be configured as inputs or outputs

▶ Software configurable I/O

▶ Support for lighting applications with dimming

▶ DIN rail mountable (EN 50022-35x7.5)

▶ Modular design provides flexibility, ease of service and reduces cost of future upgrades and expansions.

Specifications

Universal Points
Up to 8 inputs (16 bit), supporting:
- 0-5 VDC
- 0-10 VDC
- 10 kΩ Thermistor
- Dry Contact (using 10 kΩ Thermistor software setting)
- 4-20 mA (using external 250 Ω resistor on 0-5 V setting)

Up to 8 outputs (12 bit), supporting:
- 0-10 V @ 20 mA max (sourcing)
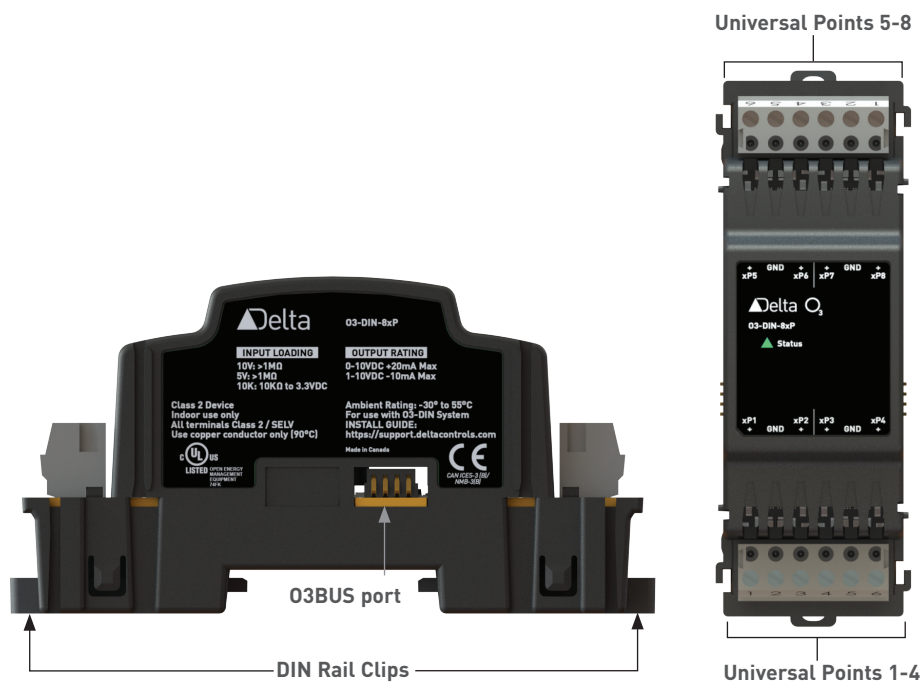- 1-10 V @ 10 mA max (sinking)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

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O3-DIN

O3-DIN-8xP: 8 Universal I/O Module

O3BUS port

DIN Rail Clips

Universal Points 5-8

Universal Points 1-4

Specifications (Continued)

Power
24 VDC, 4W max with fully loaded outputs*

* I/O module power is internally supplied from a O3-DIN-CPU through the O3BUS port.

Communication Port
O3BUS port

Ambient
-30° to 55°C (-22° to 131°F)
10 to 95% RH (non-condensing)

Dimensions
36 x 111 x 58 mm
(1.42 x 4.37 x 2.28 in.)

Weight
72.9 g (0.161 lb)

Compliance
CE
FCC

Listings
UL 916 Listed

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Published February 2018_r

Order the O3-DIN system base unit with one or more modules:

Base Unit

O3-DIN-CPU	CPU base unit: 3 network ports, dual Ethernet ports, 3 Power Out, Bluetooth, Modbus RTU support, NFC

Module Options

O3-DIN-8xP	I/O module: 8 Universal I/O, input (0-10V, 0-5V, 10K) or output (20mA source, 10mA sink)
O3-DIN-DALI	DALI lighting module: DALI interface, 100mA power output

Power Supply

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24V 30 Watt Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24V 60 Watt Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24V 100 Watt Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24V 30 Watt Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24V 50 Watt Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24V 100 Watt Class B EMC

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O3-DIN

O3-DIN-CPU

Description

The O3-DIN-CPU is a fully programmable native BACnet® Building Controller. As the primary integration engine of the O3 system, the O3-DIN-CPU contains memory storage and external communication ports as well as the control logic for the expansion modules. The O3-DIN-CPU can support up to 4 expansion modules.

The O3-DIN-CPU supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP and Delta LINKnet.

Specifications

BACnet Device Profile
BACnet Building Controller (B-BC)

Device Addressing
Software addressed

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 100W max

Power Out
1 24 VDC switched Power Out port
  Short circuit protected
  Overcurrent protected

2 24 VDC unswitched Power Out ports

Application

The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The O3 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

Features

▶ Fully programmable

▶ BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports

▶ Dual Ethernet ports

▶ Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.

▶ Advanced fault detection and diagnostics

▶ Firmware upgrade and database load/ save over the network

▶ LED indicators for device status, NET and Ethernet ports

▶ USB expansion ports

▶ DIN rail mountable (EN 50022-35x7.5)

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O3-DIN

O3-DIN-CPU

24 VDC Power In
24 VDC switched Power Out
NET1 Port **NET2 Port** **NET3 Port**
24 VDC unswitched Power Out

Ethernet 1 Port **Ethernet 2 Port** **Stacked USB 2.0 Ports** **24 VDC unswitched Power Out**

O3BUS Port
DIN Rail Clips

Order the O3-DIN system base unit with one or more modules:

Base Unit

O3-DIN-CPU	CPU base unit: 3 network ports, dual Ethernet ports, 3 Power Out, Bluetooth, Modbus RTU support, NFC

Module Options

O3-DIN-8xP	I/O module: 8 Universal I/O, input (0-10V, 0-5V, 10K) or output (20mA source, 10mA sink)
O3-DIN-DALI	DALI lighting module: DALI interface, 100mA power output

Power Supply

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24V 30 Watt Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24V 60 Watt Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24V 100 Watt Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24V 30 Watt Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24V 50 Watt Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24V 100 Watt Class B EMC

Specifications (Continued)

Technology
ARM Cortex-A8
32-bit 600 MHz RISC CPU
4 GB eMMC Flash memory
256 MB DDR3L RAM
Real-time clock
Ultracap power backup for RTC and CPU

Communication Ports
2 Ethernet (10/100-Base T)
BACnet/IP, BACnet over Ethernet

3 RS-485 Ports supporting:
   BACnet MS/TP up to 76800 bps, max 16 devices per O3-DIN-CPU on MS/TP

   Delta LINKnet up to 76800 bps, max 8 eZNS devices per O3-DIN-CPU on LINKnet

2 USB 2.0 Host ports

O3BUS port

Bluetooth Low Energy (Version 4.2)

Ambient
-30° to 55°C (-22° to 131°F)
10 to 95% RH (non-condensing)

Dimensions
108 x 111 x 58 mm
(4.25 x 4.37 x 2.28 in.)

Weight
193 g (0.425 lb)

Enclosure Protection Rating
IP20

Compliance
CE
FCC

Listings
UL 916 Listed

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Updated March 8 2018_r

Subject to change without notice.

▶ O3-DIN

O3-DIN-PWRINJ: Power Injector

Description

The O3-DIN-PWRINJ power injector increases the number of O3-DIN modules on an O3 system by providing power to a maximum of 4 O3-DIN I/O or gateway modules. These power injector expansions can be located up to 70 m (230 ft) away and still be directly controlled by the O3-DIN-CPU room controller.

Using power injectors, HVAC, access and lighting control can be centralized on single controller. The O3 system's modular nature also has the flexibility to grow to meet future needs of the site without additional wiring costs.

Application

The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system.

Features

▶ A series of power injector units adds up to 12 O3-DIN modules to a single O3-DIN-CPU room controller

▶ Small footprint, DIN rail mounted

▶ Power injectors can be externally powered or powered by the O3-DIN-CPU controller

Specifications

Device Addressing
Set via rotary switch

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 100 W

Power Out
80 W (PWR OUT 1 and 2)

Ambient Rating
−30°C to 55°C (−22°F to 131°F)
10% to 95% RH (non-condensing)

Dimensions
36 × 111 × 58 mm (1.42 × 4.37 × 2.28 in.)

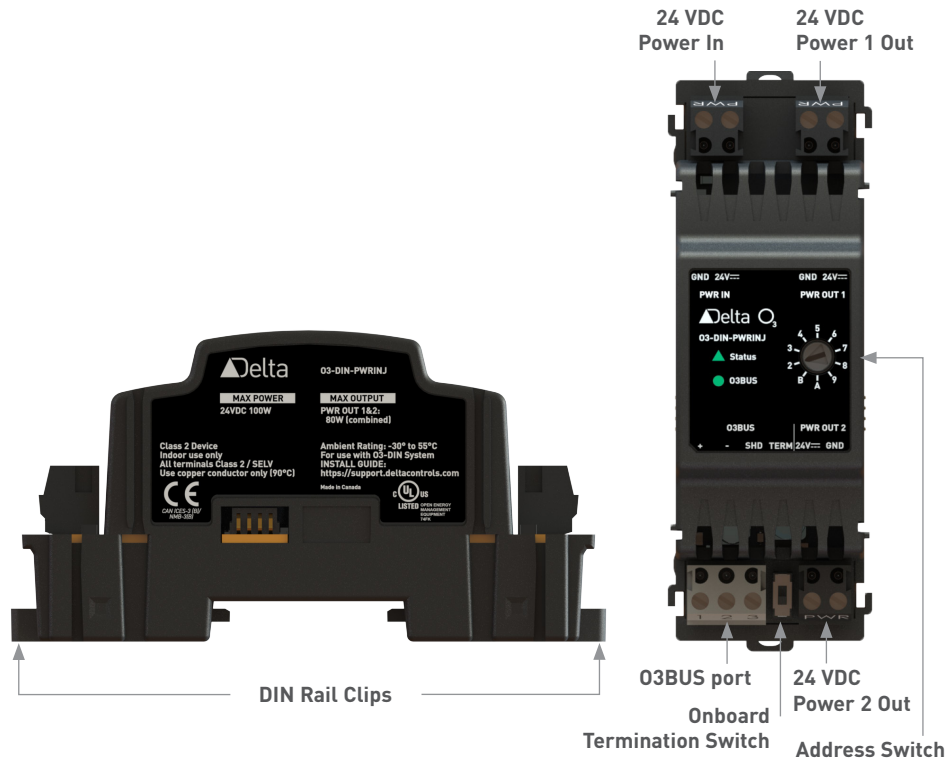**Weight**
70 g (0.15 lb)

Compliance
CE
EAC

Listings
C-UL Listed
UL 916 Listed

EAC

Updated 16 June 2020_r

▲ Delta
CONTROLS™
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O3-DIN

O3-DIN-PWRINJ: Power Injector

24 VDC Power In **24 VDC Power 1 Out**

DIN Rail Clips

O3BUS port

Onboard Termination Switch

24 VDC Power 2 Out

Address Switch

Order the O3-DIN-CPU with one or more modules or hubs:

Base Unit

O3-DIN-CPU	Base unit: 3 network ports, 2 Ethernet ports, 3 power outputs, Modbus, NFC

Modules and Hubs

O3-DIN-PWRINJ	Power injector for O3 expansion supporting up to 4 modules
O3-DIN-4F4xP	I/O module: 4 universal I/O, 4 FET binary outputs
O3-DIN-8xP	I/O module: 8 universal I/O
O3-DIN-ACCESS	Access module, single door support
O3-DIN-DALI	DALI lighting module: DALI interface, 100 mA power output
O3-DIN-PoE	Power over Ethernet module (IEEE 802.3at)
O3-DIN-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
O3-HUB	Sensor hub (temp, hum, light, motion, Bluetooth, LED ring, microphone, speaker
O3-HUB-En868	O3-HUB with EnOcean 868 MHz
O3-HUB-En902	O3-HUB with EnOcean 902 MHz

O3-DIN

O3-DIN-PWRINJ: Power Injector

Power Supplies

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC

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