



Product Announcement: enteliBUS Control System Release



Features

Modular – The enteliBUS Control System is a modular system of components that you select to meet the exact needs of a wide range of HVAC and Access Control applications. Modularity offers unparalleled flexibility, allowing you to choose the specific I/O required for your current application, while the ease of expansion allows you to increase your I/O count as needed in the future. Modular components also simplifies control system servicing. Should any component become damaged you need to replace a single module only, not the entire controller.

Expandable – Add as many or as few I/O Modules as required for your application. The enteliBUS Control System is scalable and cost effective over a wide range of applications, from low-density distributed control through high-density centralized I/O applications.

Flexible – Because the enteliBUS Control System is made up of modular components it provides unparalleled flexibility. With a selection of I/O modules supporting all typical input and output types, it is easy to create the exact quantity and mix of inputs and outputs required for virtually any control application. This means you pay only for the I/O you require.

Compact Footprint – The enteliBUS Control System has a compact footprint minimizing space usage in confined areas and mounts easily onto standard DIN rail.

Announcement

Delta Controls is pleased to announce the release of the enteliBUS Control System.

enteliBUS modules are available for ordering on Delta's online ordering site and associated firmware is available for download from Delta's support site.

Please review this announcement to learn more about this exciting new release.

Application

The enteliBUS Control System is a fully-programmable, native BACnet® control platform. Its modular design with expandable I/O provides unparalleled flexibility covering a wide range of control applications from low-density distributed I/O through high-density centralized I/O.

As a BACnet Router, enteliBUS supports multiple communications methods including BACnet/IP, BACnet over Ethernet, BACnet MS/TP, Delta LINKnet and Modbus RTU.

Ordering

Orders for enteliBUS Control System Components can be placed on Delta's online ordering site. Available enteliBUS modules are listed below:

	Model Name	Description
Automation Engines	eBCON	- enteliBUS Controller – Compact CPU/Comm. module with 4 slot controller backplane
I/O Modules	eBM-404	- enteliBUS I/O module - 4 universal inputs & 4 - 24VAC TRIAC outputs
	eBM-404-H	- enteliBUS I/O module - 4 universal inputs & 4 - 24VAC TRIAC outputs with 3 position HAO (Hand, Auto, Off) override switches
	eBM-440	- enteliBUS I/O module - 4 universal inputs & 4 - 0-10VDC outputs
	eBM-440-M	- enteliBUS I/O module - 4 universal inputs & 4 - 0-10VDC outputs with 3 position HAO override switches & 0-100% override adjust levers
	eBM-800	- enteliBUS I/O module - 8 universal inputs
	eBM-D400R4	- enteliBUS I/O module - 4 binary inputs & 4 - 24VAC relay outputs
	eBM-D400R4-H	- enteliBUS I/O module - 4 binary inputs & 4 - 24VAC relay outputs with HAO
	eBM-D800	- enteliBUS I/O module - 8 binary inputs
Expanders & Backplanes	eBX-04	- enteliBUS Expander – I/O expander with 4 slot expansion backplane
	eBX-08	- enteliBUS Expander – I/O expander with 8 slot expansion backplane
Accessories	eBB-CABLE	- enteliBUS eBUS cable kit, includes a pair of eBUS in/out terminal connectors for wiring an Automation engine to remote mounted expander(s).
	eBM-000	- enteliBUS I/O module blank to cover unused I/O slots
	eBB-TERM	- enteliBUS eBUS network terminator

See orders.deltacontrols.com for prices and catalog sheets

enteliBUS Control System Components

AUTOMATION ENGINES

The enteliBUS Controller (eBCON) Automation Engine Module contains the primary CPU and system memory. The eBCON monitors, stores and executes the control logic, which is sent to the I/O modules through the enteliBUS backplanes.

The eBCON comes with a backplane that supports up to 4 I/O modules (32 points). Additional I/O modules can be added with the use of expansion backplanes.

- Fully Programmable Native BACnet Building Controller
- BACnet/IP, BACnet over Ethernet, BACnet MS/TP, Delta LINKnet and Modbus communications
- SD Card Memory Expansion and USB Port



eBCON

EXPANSION MODULES

enteliBUS Expanders provide I/O expansion. There are two models of Expanders: the eBX-04 which supports up to 4 I/O modules and the eBX-08 which supports up to 8 I/O modules.

Multiple Expanders can be connected together and controlled from a single Automation Engine.



eBX-08

I/O MODULES

enteliBUS I/O modules come in various configurations to support all common control types. Auto detecting and hot-swappable I/O modules are selected to provide the exact I/O combination needed for a given application.

- Up to eight points per I/O module
- Inputs: 0-5VDC, 0-10VDC, 4-20mA, 10kΩ thermistor, and dry contact
- Outputs: 0-10VDC, 24VAC TRIAC, and relay
- Optional monitored overrides: 3-position switches and analog 0-100% levers



eBM I/O Modules