BASautomation®
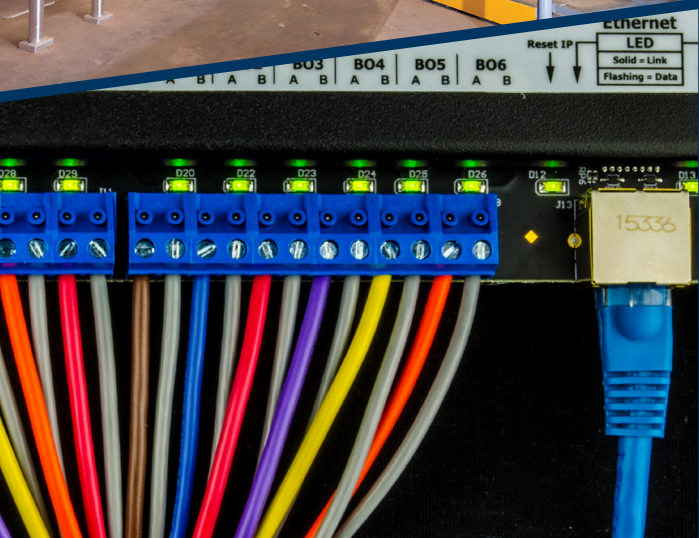
IoT Innovation

BASpi-Edge – Cloud Connected BACnet Controllers

The BASpi-Edge series are hardened controllers with enhanced features and data processing at the Edge functionality, powered by Raspberry Pi. Housed in a compact 4U (70mm wide) DIN rail mounted enclosure with 24 VAC/VDC power input and a resilient pSLC 8GB micro SD card gives them performance and convenience advantages, making them suitable for a wide array of applications. BACnet client/server communication over Ethernet or Wi-Fi, function block programmable control, and data processing at the Edge using Sedona come standard.

The BASpi-Edge are fully web page configurable with quick and easy cloud connectivity to Azure IoT Central (SaaS) cloud solution. Additional features such as email alarms/notifications, schedules with holidays/exceptions, weather web service, as well as graphical dashboards served over Ethernet, Wi-Fi, or directly out of the resident HDMI port, make the BASpi-Edge ideal for standalone or BACnet supervised automation applications. These Edge controllers can communicate with the local operational network and supervisory stations or other Edge controllers using the industry standard protocol – BACnet.

By leveraging open IoT protocols such as MQTT, proven security mechanisms such as Transport Layer Security (TLS), and robust and easy to use software as a service cloud solutions (SaaS) such as Azure IoT Central, BASpi-Edge controllers can easily and securely connect to the cloud, effectively making any attached equipment a cloud connected asset. Cloud connectivity is optional, but it provides excellent global asset management and supervision capabilities in multi-site building applications, or multi-branch store or retail chains.

Versatile Control Device

- BACnet/IP client/server over 10/100 Mbps Ethernet or Wi-Fi
- Resident Sedona Virtual Machine (SVM)
- Web page configurable over Ethernet or Wi-Fi
- Schedules with holidays/exceptions
- Email alarms/notifications
- Weather web service
- Azure IoT Central (SaaS) cloud connected
- Graphical dashboard served over Ethernet, Wi-Fi, or direct HDMI output
- NTP server or manually settable clock
- Free BAScontrol Toolset
  - Sedona Applications Editor (SAE)
  - BASemulator – BASpi controller emulation on PC
  - BASbackup – BASpi project utility

Flexible Input/Output – 12-points of physical I/O

- Six configurable universal inputs: analog input (0-10V), binary input, resistance, thermistor (10kT2, 10kT3, 20k), pulse input (40Hz max with retention to FRAM memory)

- Four or six relay outputs (30 V @ 2A max current)
- Two or zero analog outputs (0-10V)
- 48 Virtual Points (VT) communicate with BACnet clients and supervisory workstations
- 48 Web Components (WC) communicate with web browser for monitoring and configuration
- 24 VAC/VDC power and DIN rail mounted

Local graphical dashboards

freeboard

Azure IoT Central cloud dashboard

Microsoft Azure
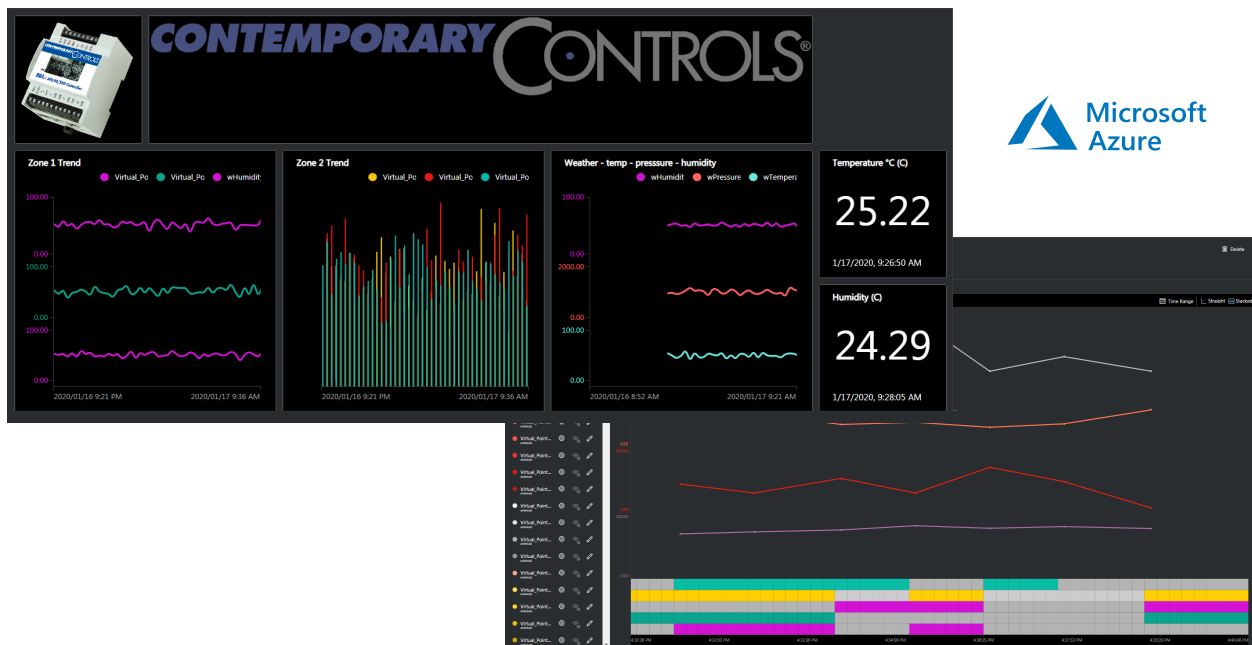
BASpi-Edge Series – Cloud Connected BACnet Controllers

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BASpi-Edge

Microsoft Azure   ASHRAE BACnet™   Sedona

Model	Description
BASPI-E6U6R	BACnet Edge Controller with 6UI/6 Relay
BASPI-E6U4R2A	BACnet Edge Controller with 6UI/4 Relay/2 Analog Out

About *BAS*automation Building on BACnet

Contemporary Controls is unique in the industry by supplying products that maximize the benefits of both BACnet and Ethernet. BACnet, an internationally recognized building automation standard, can take you from the field level to the Internet. With buildings pre-wired for Ethernet, BACnet/IP is the ideal choice for building automation systems. Ethernet is everywhere and understood by many. With BASautomation – Building on BACnet and CTRlink – Ethernet Built for Buildings, Contemporary Controls provides the system building blocks for networking, integrating and controlling your building.

BASautomation products have provided solutions worldwide

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