

CELERIS INTEGRATES WITH ALL THE MAJOR BUILDING AUTOMATION SYSTEMS.

The integration solution for each partner has been mutually tested to validate that all points are readable and writeable to assure problem-free interoperability.

BACnet®

Alerton	Intellution iFIX
American Automatrix	Invensys
Andover Controls	Johnson Controls
Automated Logic	(BSI/NCM, NAE/NAI)
Carrier	SCADA Engine
Cimetrics BACnet/OPC	Siemens
Delta Controls	Trane
Field Server Technologies	Tridium
Honeywell	WonderWare

Integration Points

- Individual valve and total airflow values and set points
- Actual temperature and control variables
- Actual humidity and control variables
- Changes to occupancy or emergency modes from the BAS
- Fume hood airflow, sash position and user status
- Alarm parameters from individual valves and fume hood valves
- User-specific alarm points

Honeywell

Phoenix Controls
Corporation

For additional information and a listing of our global offices, please visit our Web site at www.phoenixcontrols.com or call (800) 340-0007.

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CELERIS®
ENVIRONMENTAL
CONTROL SYSTEM

SIMPLIFY CONTROL ARCHITECTURE WITH CELERIS®

The Celeris platform is a highly efficient and cost effective environmental control system leveraging LonWorks™ technology to perform room-level temperature, humidity, occupancy, and ventilation control. Celeris may operate as either a standalone system or be completely integrated within a facility management system.



System Benefits

- Safety and comfort control in one system
- Cost effective
- Interoperability
- Web-enabled for remote point viewing
- Comprehensive reporting and trending

Cost effective

For buildings using the Phoenix airflow control system, it eliminates the need—and the cost—of a room-level controller. Since it uses LonTalk™, a building controls industry standard protocol, factory certified off-the-shelf tools and accessories may be added to enhance overall functionality.

Flexible

This platform has flexible inputs and outputs to accommodate a wide range of standard applications, as well as custom, site-specific functions. The architecture is scalable with up to 32 nodes in conventional pressurized space applications or 20 nodes in a laboratory fume hood application. You can easily reconfigure the system as facility needs change.

High performance

The control architecture is efficient, distributing control functions among room-level devices. The use of LonWorks-based routers and repeaters ensures sufficient communication bandwidth for control and for building-wide network communications.

Ensuring Environmental Integrity

A Higher Level of Environmental Control

Today's sophisticated research facilities have complex needs requiring control solutions that can provide more than space pressurization. Within a given facility, you may find vivariums on the lower floor, chemistry research one or two floors above, and office space adjacent to the laboratories. Each represents a different set of comfort and safety needs that can be easily met using Celeris.

This control platform leverages the known precision control of the Accel® II venturi valve with LonWorks technology to deliver a high performance, feature-rich architecture. All key environmental parameters, including temperature, humidity, and pressurization can now be controlled accurately at the room level. Other variables, such as occupancy and emergency override conditions, may also be incorporated.

All of this information is accessible from one secure location—the Local Display Unit (LDU). View and change up to 250 variables on the Celeris network from this password-protected device.

CELERIS SYSTEM FEATURES

Web-enabled

Temperature control

- Two primary control loops
- One auxiliary control loop
- Average up to five sensors

Occupancy control

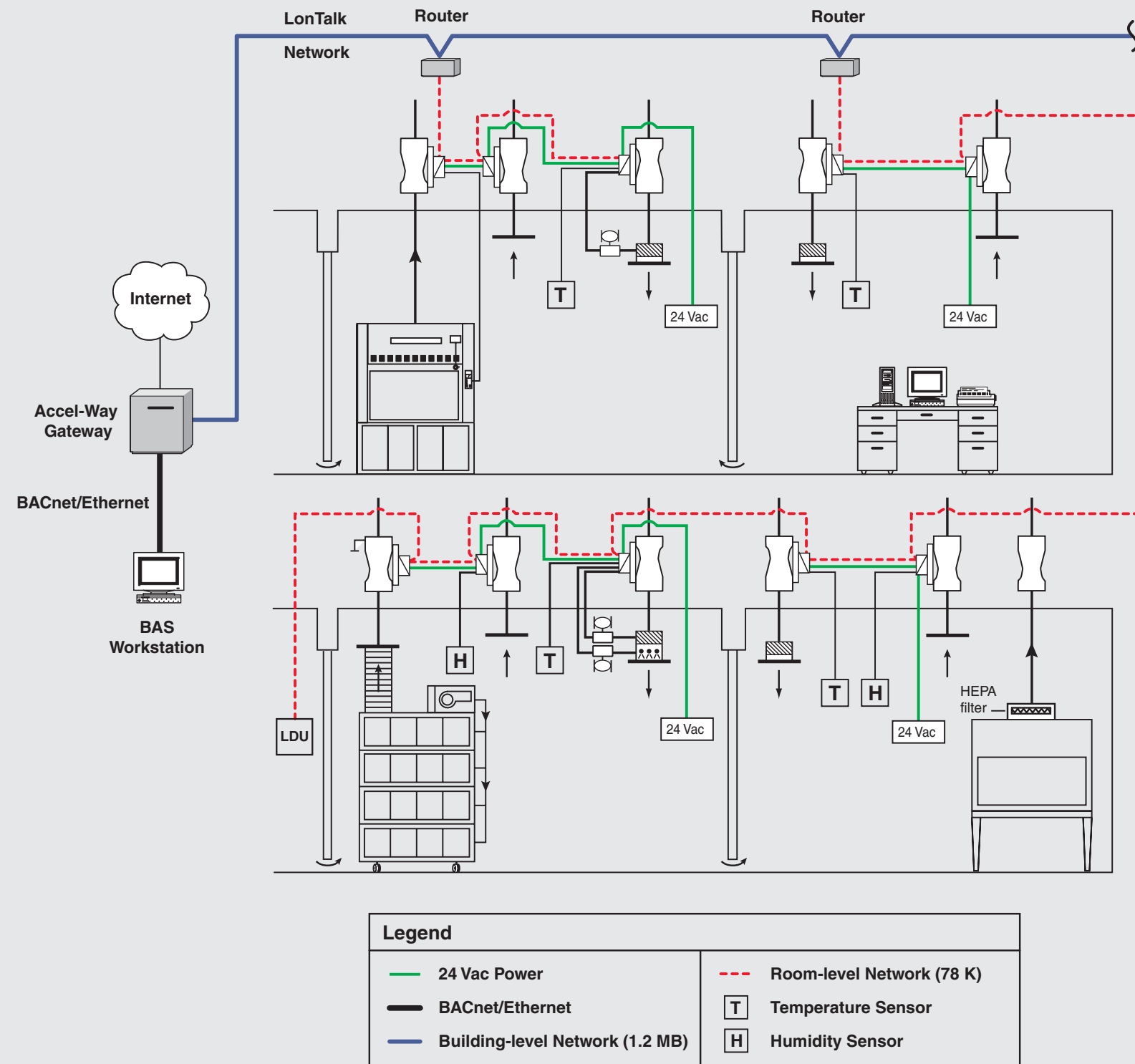
- Ventilation rates
- Temperature set point

Humidity control

- Humidification
- Dehumidification

CELERIS ENVIRONMENTAL CONTROL SYSTEM

Distributed control architecture for space pressurization, temperature, humidity control and more...



For research facilities...

Maintains proper pressurization in laboratory spaces for safety, and temperature and humidity for comfort. Benefit from energy savings through occupancy control and the Usage Based Control® system for fume hoods.

For vivariums...

Provides a safe, stable environment by controlling room pressurization, temperature, humidity and lighting. The pressure-independent system maintains room balance even when ventilated cage racks are disengaged for routine servicing.

For ancillary support spaces...

For example, biological safety laboratories of varying levels require reliable airflow control for containment and must maintain proper pressurization relative to surrounding spaces.

For office spaces...

Often this space is adjacent to a pressurized environment and must remain positive to that space. It can be easily controlled using the same network as the critical space, often uniting whole floors under one control system.

For pharmaceutical cleanrooms...

Especially suitable for controlling cascading pressurization zones because the system balances all interrelated spaces automatically and precisely.