

TOTAL ROOM CONTROL

DISTRIBUTED CONTROL OF BUILDING SERVICES



price

TOTAL ROOM CONTROL

Price Total Room Control is an elegant solution to networked device management. Each device has its own controller to store its own data and control sequences, eliminating the need for a central server.

The Total Room Control system allows for several modes of control:

- + User control via the Total Room Control Wall Switch or Price Web Server
- + Automatic control via the Total Room Control Multisensor
- + Administrative control with a building management system connected via BACnet

Since the Total Room Control system includes a wide variety of integrated devices and components, it can greatly simplify control of a building's services by placing them on one distributively controlled network.

System Features

- + Modular network setup
- + Factory commissioned for easy installation and setup
- + Easy to re-zone/group devices via intuitive field commissioning tools
- + Completely customizable device configuration
- + Easy to add or remove/change devices in an existing installation
- + Automatic restart after a power failure or other disruptive event
- + Scheduling
- + Daylight Compensation
- + 3rd party device integration
- + Powered via ultra-efficient 48V DC power
- + Reduced device quantity requirements due to increased device functionality





DISTRIBUTED SYSTEM BENEFITS

All devices on the Total Room Control network communicate with each other, allowing for a distributed approach to sensing and monitoring and eliminating the need for large, expensive back-end infrastructure. This consolidated approach also makes maintenance straightforward, inherently lowering operating costs.

The Total Room Control system's single automated platform makes it easier to operate than separate systems, and less time consuming. It also makes day-to-day use more efficient, since lighting, HVAC and other systems can be adjusted from one intuitive interface.

Total Room Control also improves environmental performance by reducing wiring and a building's environmental footprint since an integrated system means reduced device requirements and less material used.

Doing away with the need to make manual adjustments to individual systems, Total Room Control makes for a more comfortable and healthy environment for a building's occupants.

SYSTEM COMPONENTS

POWER AND DATA MODULES (PDM)



PDM with Remote Drivers (4) – This compact unit provides power and network connectivity for a total room control segment with the addition of 4 remote digital drivers.



PDM with Remote Drivers (8) – This compact unit provides power and network connectivity for a total room control segment with the addition of 8 remote digital drivers.

CLOUD CONTROL

Computer



Price Web server



DEMAND DEVICES

Multisensor



Wall Switch



MVM



EXECUTION DEVICES

HVAC Controls



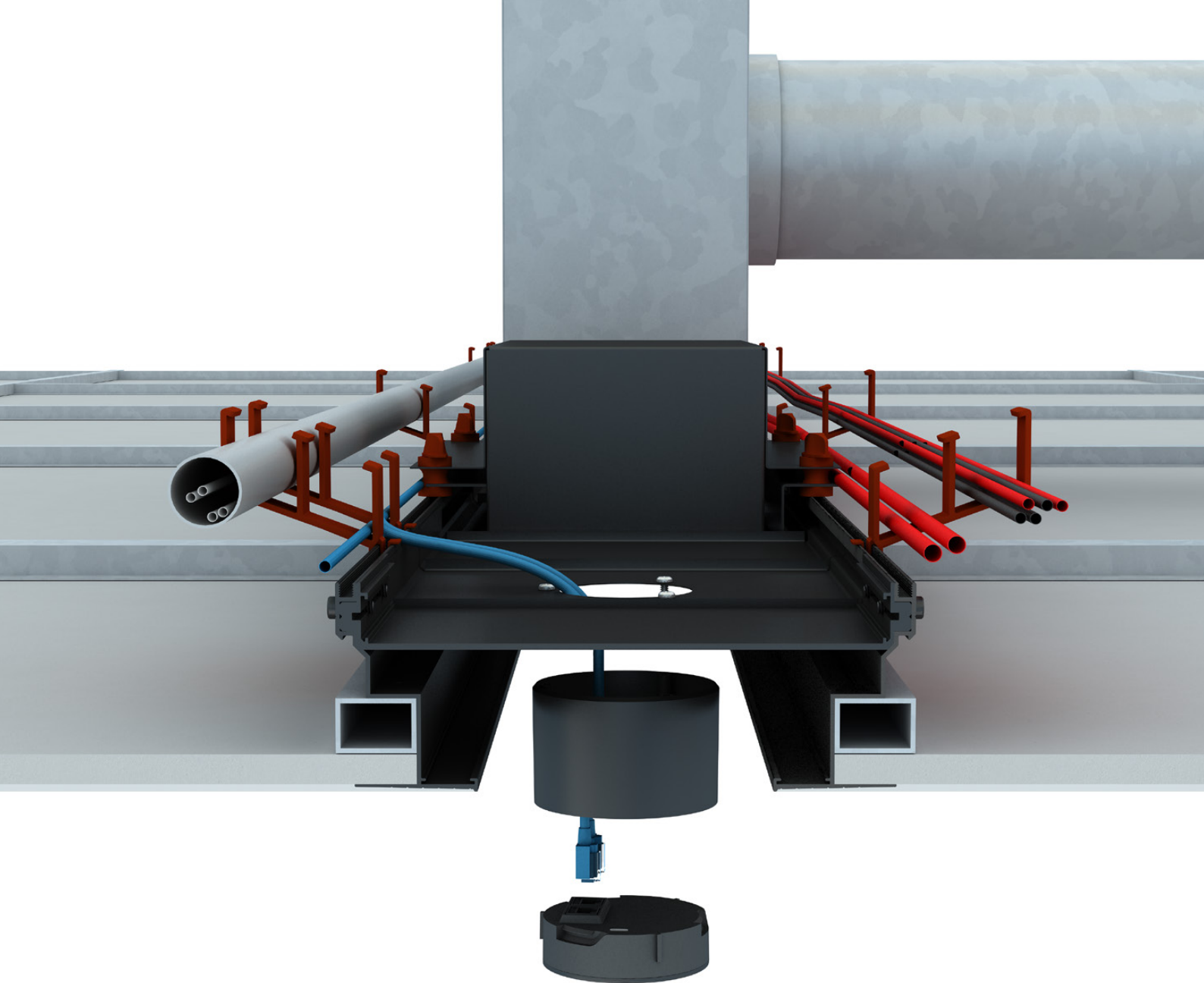
Lighting Controls



Third Party Integration

- + Fans
- + Blinds
- + Automatic doors





NETWORKING

The distributed network of Total Room Control is set up so that all devices are visible to each other on the network. Each device stores its programming locally so when a broadcast message is received, the device decides what to do with the information. This makes it incredibly easy to re-configure zones and add devices as adjustments can be made to specific devices over the network.

Device Broadcasts and Responses

- + **Multisensor** detects and broadcasts occupancy, room temperatures and light values.
- + **Wall Switch** broadcasts user inputs as well as detects and broadcasts room temperatures. It also broadcasts the temperature set point.
- + **HVAC** receives room temperatures from the multisensor. It can also receive room temperatures and temperature set point from the wall switch.
- + **Lighting driver** receives occupancy and light values from the multisensor. It can also receive scenes and set points from the wall switch.

Zone Configuration

The three zone and two zone systems shown both use the same infrastructure. No devices have changed, no wiring has changed - all that has changed is the programming used to identify these devices and which zones they belong to. With Price Total Room Control, zone configuration is a simple task that can be completed through an intuitive user interface.

Legend

MS – Multisensor

WS – Wall Switch (can be any user interface including an computer, phone or tablet)

L1 – Lighting with Integrated Driver

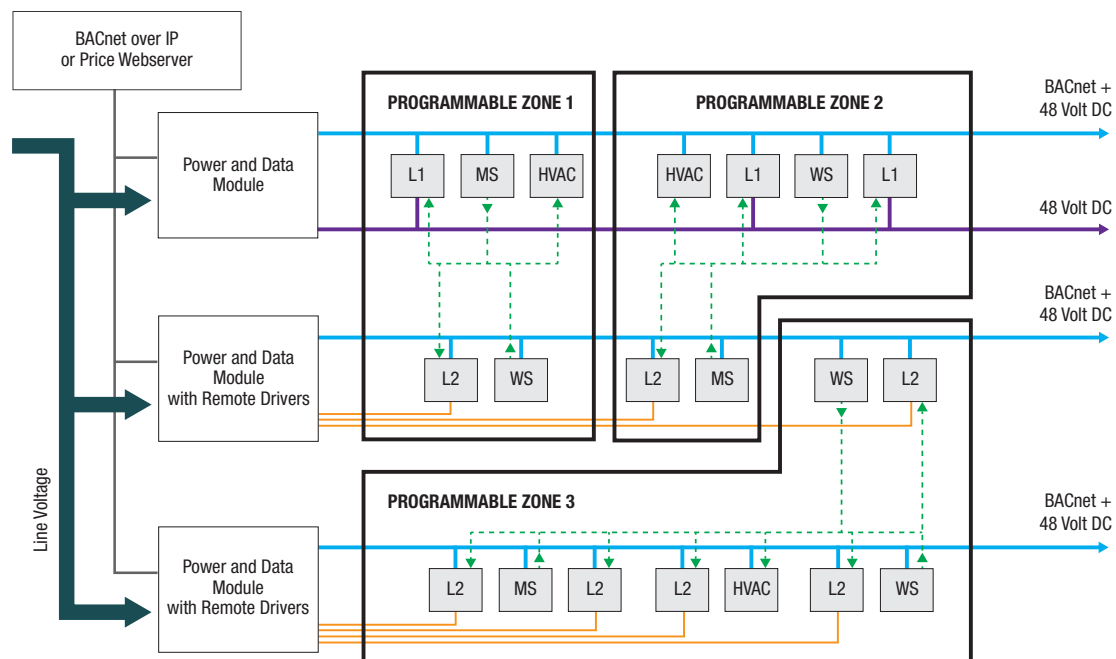
L2 – Lighting with Remote Drivers

HVAC – Heating Ventilation & Cooling

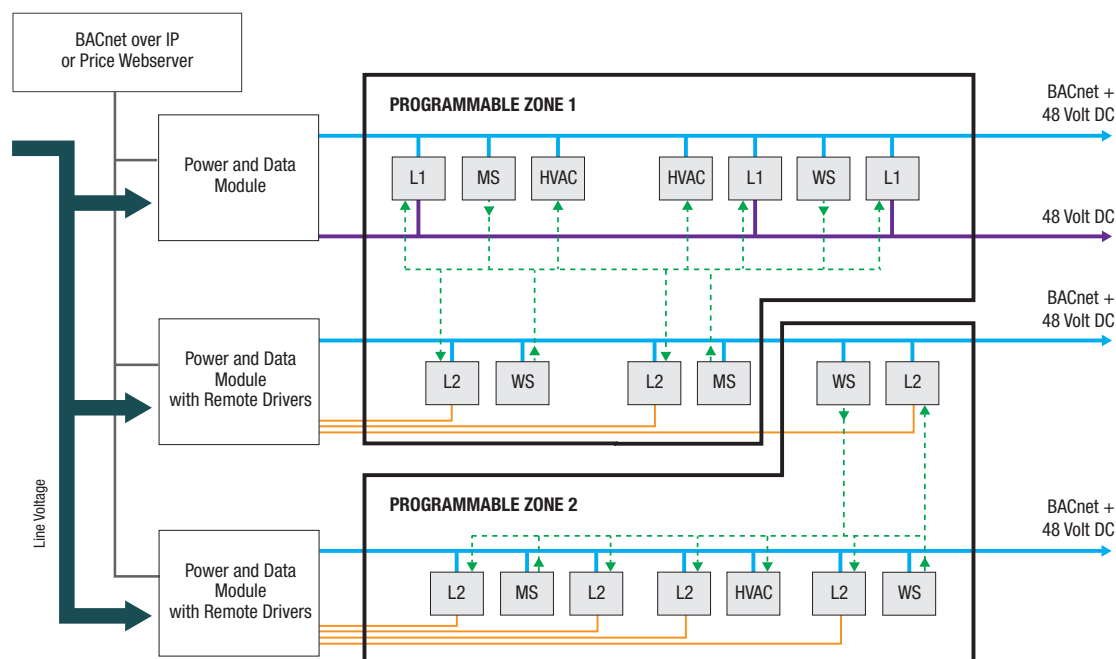
--> – Demand Broadcast

— – Remote Lighting Driver Output

Three Zone System



Two Zone System





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