



Common use case scenarios and applications

SpaceLogic™ Operator Display

Use this supplemental application guide in conjunction with the SpaceLogic Operator Display leaflet



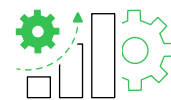
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SpaceLogic™ Operator Display is the touch-screen human-machine interface (HMI) for SpaceLogic controllers and servers. Ready-to-use and intuitive to operate, the display simplifies operations, service and troubleshooting for localized monitoring in key service areas.

SpaceLogic Operator Display is designed for monitoring controllers in plant rooms – from simpler network architectures to large buildings with comprehensive building management systems. It communicates via BACnet/IP with direct connection to SpaceLogic controllers, with or without EcoStruxure™ Building Management Systems (BMS) with SpaceLogic AS-P and AS-B servers.

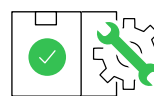
- Fast, IP-based communication speeds maximize engineering efficiencies
- Compatible with a wide variety of plant room control applications from stand-alone control of equipment to complex HVAC control in large buildings
- Connects with SpaceLogic AS-P, AS-B, MP-C, MP-V, RP-C or IP-IO over BACnet/IP and BACnet/IP controllers from other manufacturers
- Discovers BACnet field devices on the same network and displays their points
- Discovers any connected controllers whose points are exposed to the system as BACnet points
- Scale as system requirements change, connecting with up to seven controllers



Improves operational efficiency



Allows monitoring in key service areas



Easy installation



Small or room area HVAC control

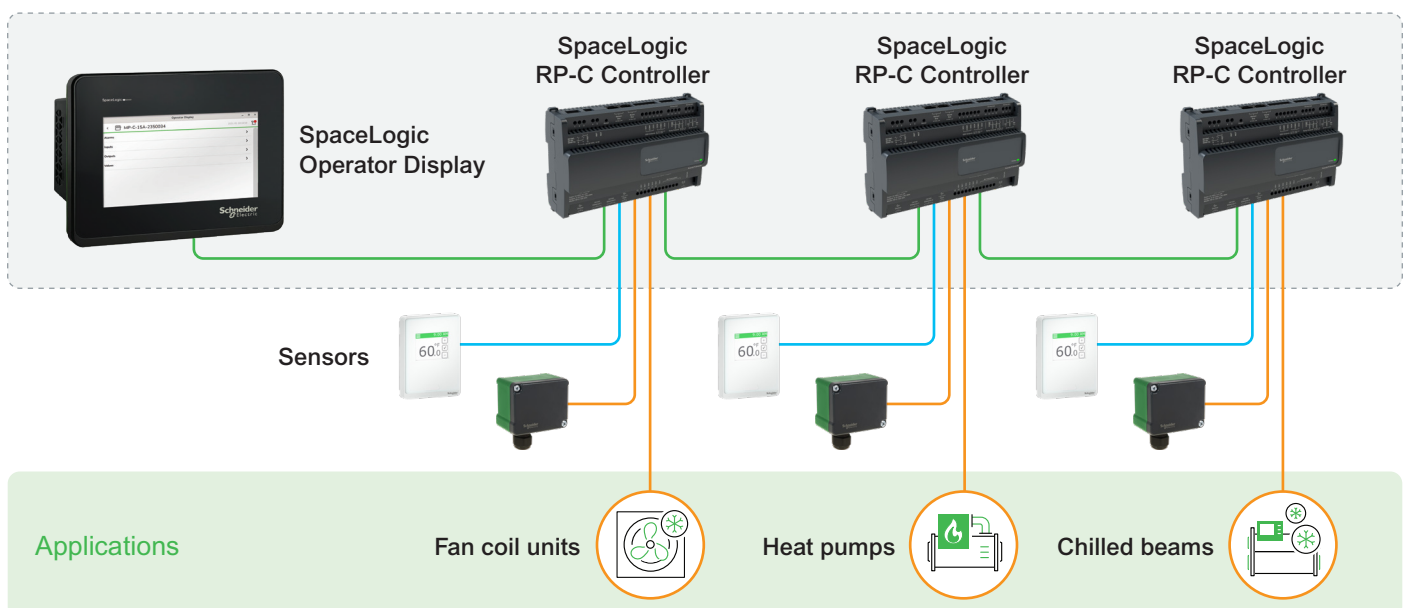
SpaceLogic Operator Display is a simple, cost-effective HMI for basic HVAC control in smaller systems for a small or room area solution. It connects directly to SpaceLogic MP or RP controllers in the panel – no need for additional servers – and commissions in only minutes with no programming or external tools.

- Viewpoints, view and acknowledge alarms
- Modify temperature setpoints
- Perform equipment maintenance checks
- Adjust time schedules
- Customize views
- Discover up to seven SpaceLogic controllers to make the HMI the interface for all SpaceLogic controllers in a single cabinet or multiple SpaceLogic controllers in a local control area

Applications

- Pump Stations
- Fan Rooms
- Heating and Cooling Panels
- Fan coil units
- Rooftop units
- Heat pumps
- Chilled beams
- Make-up air units
- Exhaust Hoods
- Unit ventilators
- Air/Water chillers
- Packaged units
- Heat recovery units
- Humidification/Dehumidification units

Panel with multiple SpaceLogic RP-C controllers





Stand-alone plant/mechanical room control

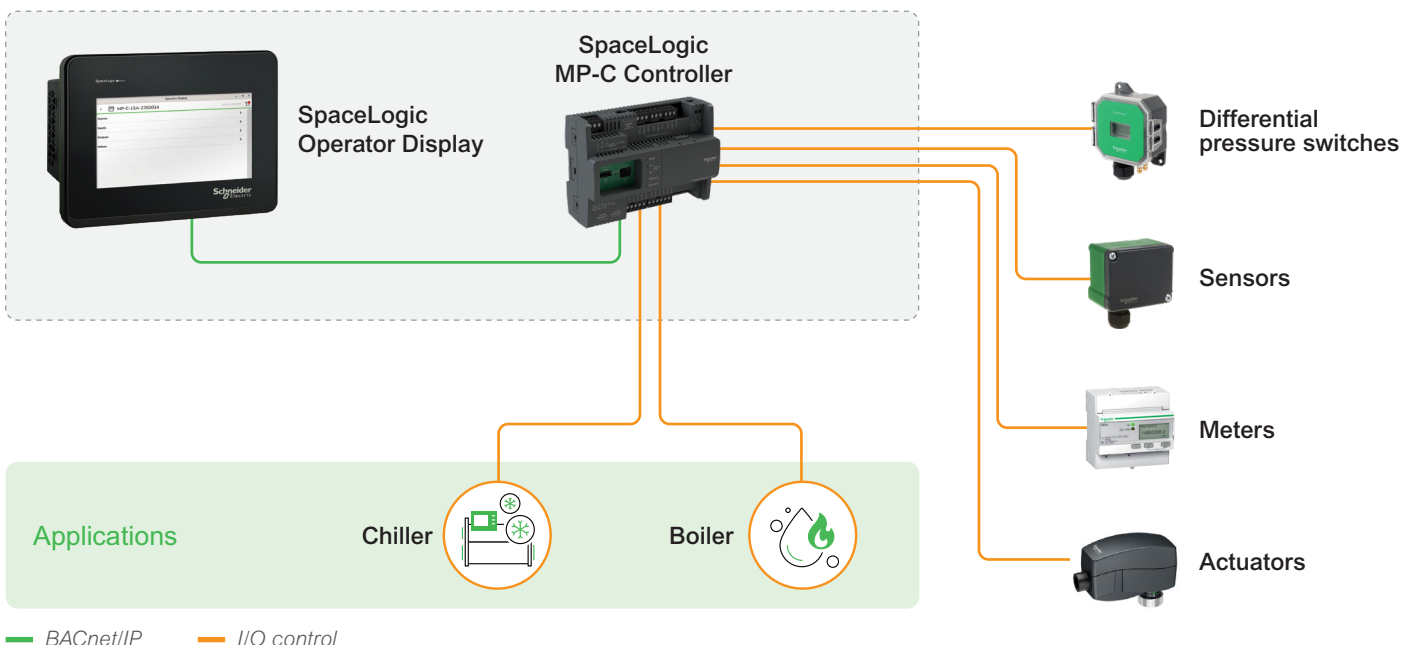
Many facilities do not have complex control needs. Stand-alone, cost-effective control systems often meet requirements and can be controlled and monitored by facility managers. In a central plant or mechanical room, SpaceLogic AS-B or MP-C controllers can be used as a stand-alone BACnet/IP controller to control multiple, centrally located HVAC equipment. In such rooms, system maintenance and operation are simplified and centralized. SpaceLogic Operator Display, designed with the plant room in mind, is installed directly in the plant room where the facility managers, service engineers and custodial staff perform their duties.

- Improves work efficiency and response time
- IP65-rated device is ideal for the harsher environment of a typical plant room
- Intuitive, easy-to-use interface with minimal learning curve needed to test and troubleshoot issues
- Communicates over BACnet/IP with direct connection to SpaceLogic AS-B and MP-C controllers used in plant or mechanical room control
- Only one display is needed per plant room control panel; up to seven controllers can be discovered by a single display

Applications

- Boilers
- Chillers
- Cooling towers
- Air handling units
- Heating systems
- Air systems
- Central heating and cooling systems
- School boiler houses
- Heat exchanger
- District heating schemes
- Domestic hot water systems

Panel with single SpaceLogic MP-C controller



Large system with EcoStruxure Building Operation

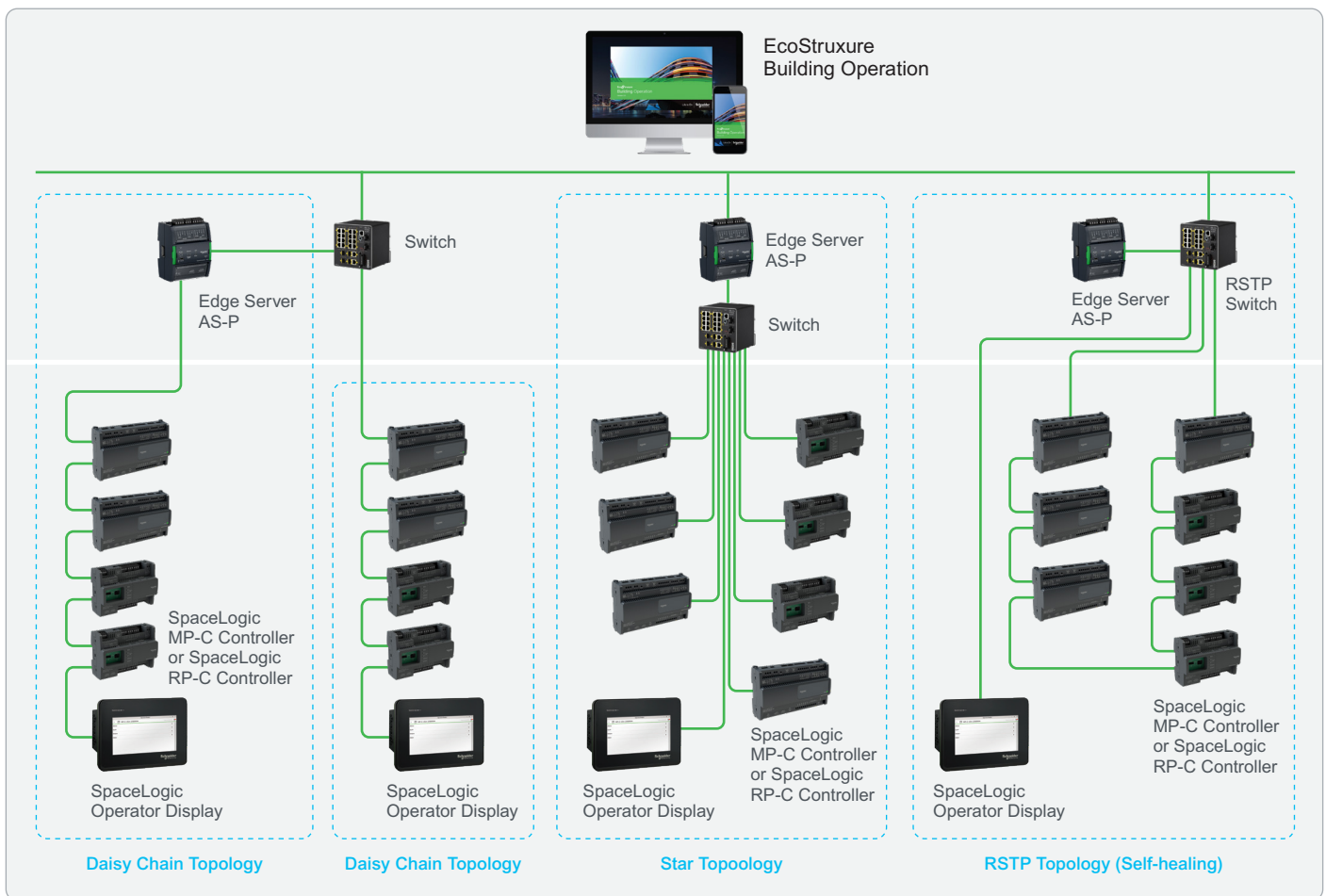
Large installations have EcoStruxure Building Operation Enterprise Server or SpaceLogic AS-P server at the core of their building management systems. The SpaceLogic Advanced Display is suited for large plant rooms because it connects directly to the AS-P in the panel and provides a fully featured user interface via WebStation to the SpaceLogic controllers and servers in the BMS. SpaceLogic Operator Display is ideal for the smaller plant rooms in the building because of its simple, cost-effective, easy-to-use interface that is suitable for a range of operators.

- Provides a local user interface for SpaceLogic plant room controllers in the BMS
- Connects directly to SpaceLogic AS-B and MP-C controllers in the equipment room where facility managers and janitors perform their duties
- Increases work efficiency and response time of facility managers and custodians
- Acts as a backup interface to monitor large systems if servers are offline or communication with field controllers is lost, maintaining local functionality regardless of AS-P status
- Discover and monitor up to seven SpaceLogic controllers in daisy chain, star or RSTP topologies as shown in the architecture below

Applications

- Campuses
- Large office buildings
- Shopping malls
- Large hospitals

EcoStruxure Building Management System



— BACnet/IP

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