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# SB2WEB BACnet Controller and DALI Master



## Markets of interest

- Building automation



## Relevant Technical Data

### SB2WEB

- Functions for control of lighting, blinds, temperature, logic, scheduling, sequencing, alarms and data logging
- Manages up to 7 SH2CGM24 Dupline master Channel Generators
- Ethernet port for BACnet/IP and Modbus/TCP communication
- BACnet objects for all Dupline and EM data points
- SBWEB functions and parameters can be monitored and controlled via BACnet objects
- Modbus RS485 port for connection of up to 32 Energy meters
- Dimension: 2-DIN housing
- 12-28 VDC Power Supply
- User-friendly PC based configuration tool



## Relevant Technical Data

### SB2DALI230

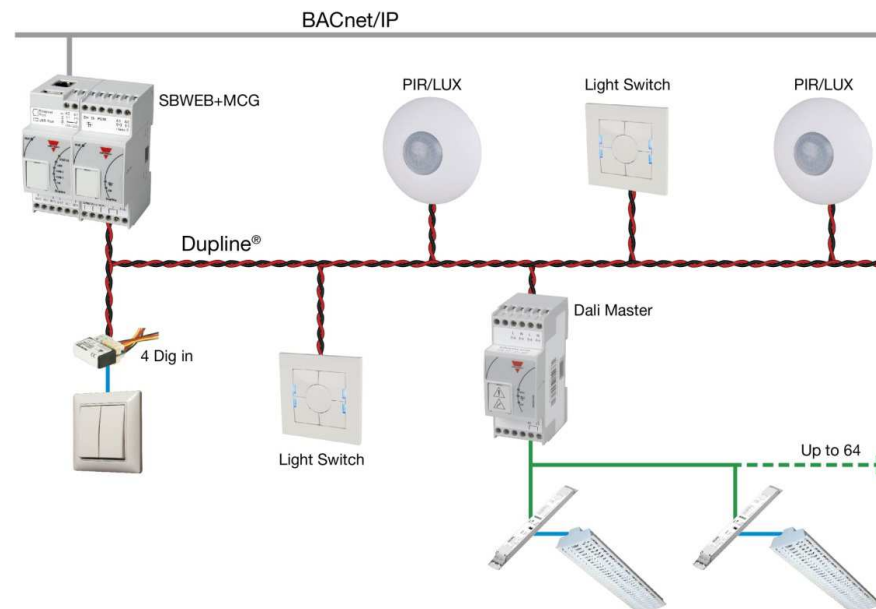
- Gateway from Dupline to DALI
- Operates as DALI Master
- Built-in DALI power supply
- Connects directly to the Dupline bus
- Manages up to 64 lighting actuators on the DALI bus
- Up to 16 lighting groups on one DALI network
- Each DALI actuator is a dimming output in SB2WEB
- The configuration of the DALI network is managed from the SB2WEB configuration tool
- Dimension: 2-DIN housing
- 115-230 VAC Power Supply



## Relevant Technical Data

### SB2WEB & SB2DALI230

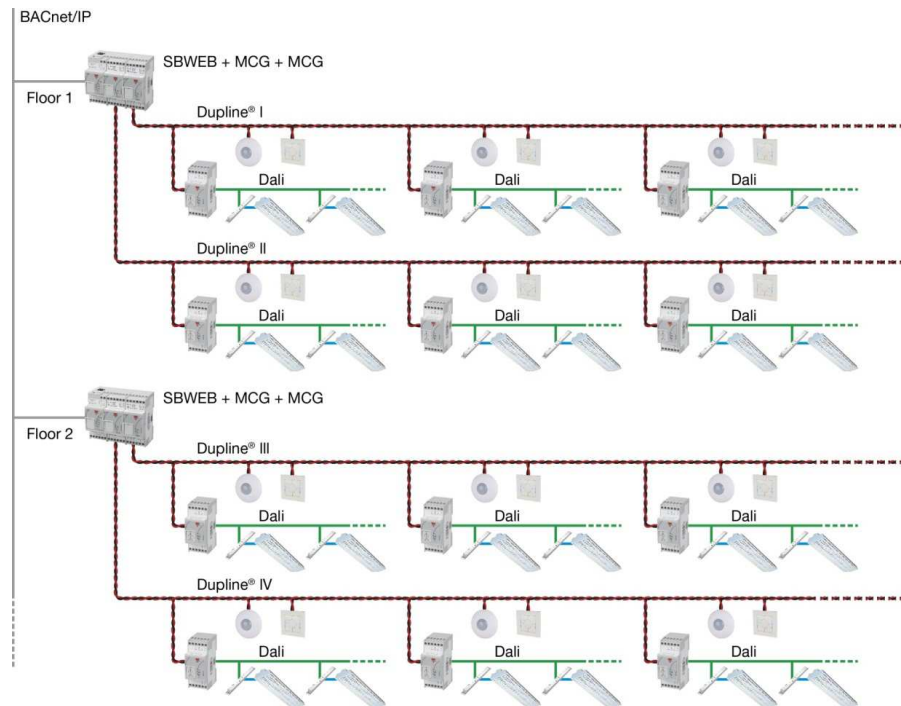
- Dupline bus-powered sensors and decentralized I/O-modules provide the data points from field level
- The SB2DALI230 DALI Master provides the interface to the DALI lighting actuators
- The SB2WEB performs the building lighting control functions (e.g. constant light control) and interfaces to the Building Management System through BACnet/IP



## Relevant Technical Data

### SB2WEB & SB2DALI230

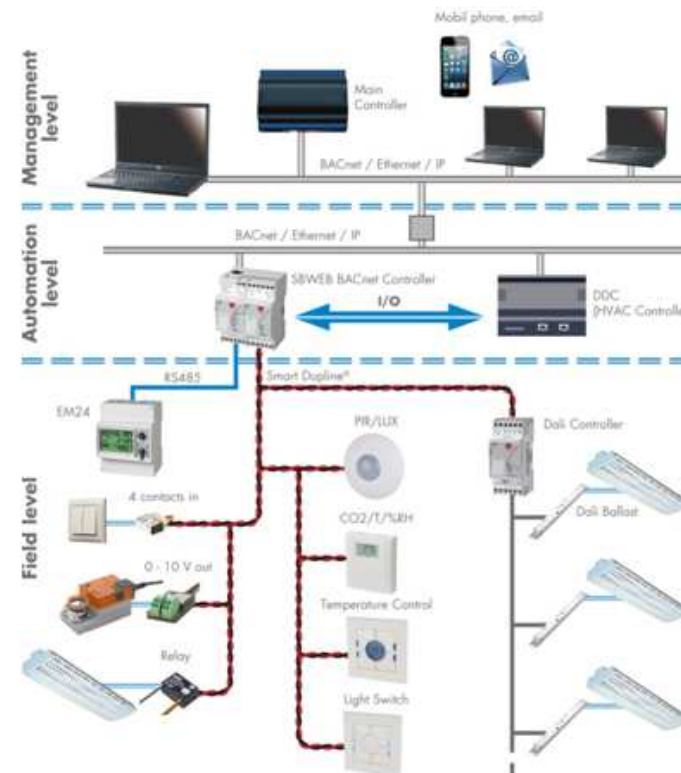
- The system is completely scalable and can be used in any size of building
- The DALI segments are linked together with Dupline in a very easy way compared to competitor solutions



## Relevant Technical Data

The complete SB2WEB solution for integrated HVAC and lighting control

- The SB2WEB is connected to PIR/LUX sensors, light switches, temperature, CO2 and humidity sensors, analog outputs and relays via the Dupline network
- The SB2DALI230 DALI master provides the interface to the DALI lighting actuators for dimming
- The SB2WEB performs the lighting control functions
- The Building Management system can monitor, control and change parameters in the lighting control functions via BACnet/IP
- The DDC (HVAC controller) use Dupline as remote I/O to reduce installation cost significantly
- The DDC (any brand) is interfaced to SB2WEB in a standardized way through BACnet objects



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## Advantages of SB2WEB and DALI Master in Lighting systems

**Simplified wiring at the field level:** The 2-wire bus-cable is daisy-chained from device to device at the field level, thereby reducing installation cost

**The Dupline® features:** long distance, free topology, robust communication, few rules making wiring of the system easy to plan and implement

**Easy commissioning:** With the DALI network configuration built into the S2BWEB configuration tool, all the system can be configured in a easy way using only one tool

**Completely scalable:** The system can manage lighting control in any size of building and connects the DALI bus segments in a very simple and efficient way

**Easy BMS interfacing:** The BACnet/IP interface provides a standardized and easy way to interface to the BMS.

**High flexibility:** The system can be enhanced easily because if additional I/O-points are needed some place, it is merely a question of extending the bus cable to that point and add the required module

**Cost effective I/O-modules**



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## Advantages of the decentralized installation - HVAC

**Simplified wiring at the field level:** With the multi-drop solution, where the 2-wire bus-cable is daisy-chained from device to device at the field level, the installation cost can be reduced significantly compared to the traditional hardwired HVAC controller solutions

**Less subpanels and DDC Controllers:** With the Dupline® bus the actual “operating range” and number of I/O’s of a DDC Controller is increased a lot and thereby the number of sub-panels and DDC’s can be reduced

**High flexibility:** The system can be enhanced easily because if additional I/O-points are needed some place, it is merely a question of extending the bus cable to that point and add the required module

**When the bus is integrated in sensors and actuators** there is no need for I/O’s modules and the associated wiring, thereby cost is further reduced

**Cost effective I/O-modules**

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## Advantages of combined HVAC and Lighting

**One network – two solutions:** With the HVAC and lighting control integrated in one system considerable cost saving are achieved because only one network infrastructure is needed in the building

**Sharing of data on the field level:** With an integrated solution the HVAC and lighting system can share devices at the field level. E.g. the same PIR presence detectors for a room can be used by both systems

**We offer HVAC system integrators the option to include lighting control:** Most HVAC DDC controllers are poor for lighting control. However, there is a trend for building owners to integrated systems. With the SB2WEB solution we offer the HVAC integrator to 1) Reduce wiring cost of the HVAC system 2) Integrate lighting control in his offering

## Certifications



•Quality Management System: ISO 9001:2008

•Environmental Management System: ISO 14001:2004