

The ECO line

Always striving to offer additional functionality and a comprehensive line of products adapted to the basic functions of the CVC, SBC proposes its ECO line. This line combines the most popular features of the open cross-platform LONWORKS® network, designed for the management of office comfort.

These controllers are designed to operate devices such as fan coil heaters, chilled beams, terminal boxes, heated/chilled ceilings, etc. They can independently operate hot and cold water batteries with two or four ducts, with or without electric batteries. They can also operate lighting supporting the DALI standard.



Key advantages

- ▶ a line combining the functions of the CVC
- ▶ open communication protocols: LONWORKS®, DALI, SARAH
- ▶ direct control of DALI ballasts
- ▶ multiple digital and analogue inputs

Functions

- ▶ Temperature control via on hot and cold valves and an electric battery
- ▶ Configurable fan control with two modes: variable speed or 3-speed
- ▶ Air quality control via air intake control or variable speed ventilation
- ▶ Upper and lower limits for blower temperature
- ▶ Limitation to the use of electric battery (discharge)
- ▶ Inlet and outlet ports are fully configurable
- ▶ Integrated testing function for the direct control of outlet ports
- ▶ Operation of lighting via on the DALI network
- ▶ Compatible with other controllers and SBC accessories (multi-sensors, ambient control units, etc.)

Network connections

DALI terminals without polarity
 Wiring with 2 HO5VK wires of 0.5 to 1.5 mm²
 or a single-pair SYT1 cable of 0.9 mm²
 DALI outlet: Max current, 200 mA
 2 LonWorks® terminals: typical cable BELDEN 7701NH

Ambient control unit

PCD7.L64D-E1421

3-colour LED
 4 buttons
 NTC temperature sensor
 CVC function control
 Window contact status

Standards/Warranties

DIRECTIVE 2014/35/EU "LOW VOLTAGE"
 DIRECTIVE 2011/65/EU "ROHS DIRECTIVE"
 DIRECTIVE 2014/30/EU "ELECTROMAGNETIC COMPATIBILITY"
 All our products are guaranteed for 2 years offering standard exchange (refer to General Conditions of Sale).

Environment

Operating temperature 5°C to +45°C
 Storage temperature -20°C to +70°C
 Relative humidity +20% to +90% without condensation

Connections

Plug-in screw terminals
 Except
 – DALI connection: spring-loaded terminal with 1.5 mm² rigid wires
 – electric battery: non-detachable screw terminal



Controller	PCD7.L60L-E1200	PCD7.L60L-E2200	PCD7.L60L-E6200
Mechanical characteristics	Material: PC UL94 V0 Dimensions: 106 × 75 × 59 mm IP20 Weight: 160 g	Material: ABS V0 Dimensions: 142 × 95 × 65 mm IP20 Weight: 320 g	Material: ABS V0 Dimensions: 142 × 95 × 65 mm IP20 Weight: 320 g
Electrical specifications	Power supply: 100 to 240 V/50 to 60 Hz Standby power: <1 W Max current: 4 A Breaker protection 4 A Class D	Power supply: 100 to 240 V/50 to 60 Hz Standby power: <1 W Max current: 4 A Breaker protection 4 A Class D	Power supply: 100 to 240 V/50 to 60 Hz Standby power: <1 W Max current: 4 A Breaker protection 4 A Class D
Outlet ports	2 outlet ports 0 to 10 V 2 valves 230 V, 3 A max Electric battery 1 kW	3 speeds 2 valves 230 V Electric battery 1 kW (on request 1.5 kW or 2 kW)	3 speeds 2 valves 24 V or 0 to 10 V Electric battery 1 kW (on request 1.5 kW or 2 kW)
Inlet ports	1 window contact: max length 100 m/ impedance less than 600 ohms 1 × NTC10K (10 kOhms) references: - VF10-1B65NW (immersion 150 mm), - VF10-5B65NW (immersion 50 mm), - KTF10-2B65 (cable 2 m) + or -0.1°C outside probe at 20°C max length 3 m 1 inlet port 0 to 10 V DALI	1 window contact: max length 100 m/ impedance less than 600 ohms 1 inlet port DI 1 × NTC10K (10 kOhms) references: - VF10-1B65NW (immersion 150 mm), - VF10-5B65NW (immersion 50 mm), - KTF10-2B65 (cable 2 m) + or -0.1°C outside probe at 20°C max length 3 m 1 × digitale or NTC10K-input DALI	1 window contact: max length 100 m/ impedance less than 600 ohms 1 inlet port DI 1 × NTC10K (10 kOhms) references: - VF10-1B65NW (immersion 150 mm), - VF10-5B65NW (immersion 50 mm), - KTF10-2B65 (cable 2 m) + or -0.1°C outside probe at 20°C max length 3 m 1 × digitale or NTC10K-input DALI

Compatible with other controllers and SBC accessories (multi-sensors, ambient control units, etc.)

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