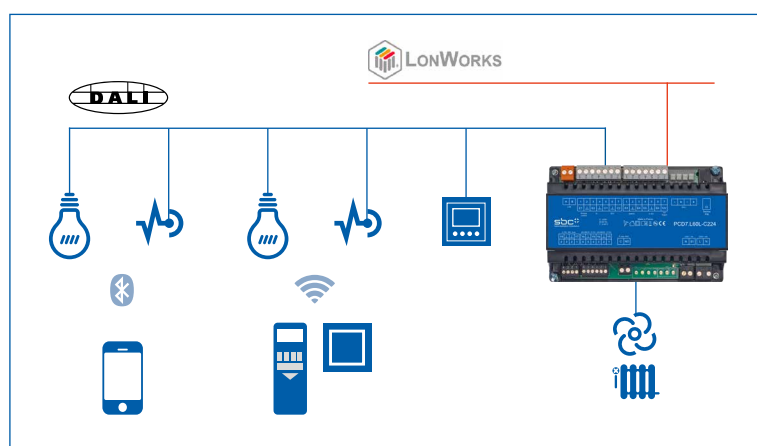
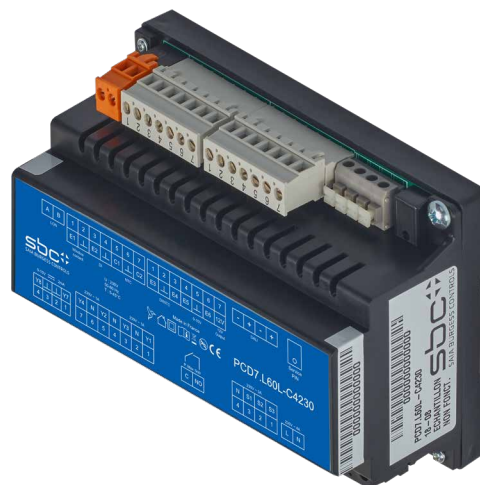


PCD7.L60L-C224 and PCD7.L60L-C4230 HVAC & Light terminal units

The serie PCD7.L60L-Cx room controllers are designed for energy and comfort management in the workplace : they can regulate temperature and lights. With an add-on module, they can manage blinds. They are aimed to terminal unit management such as fan coil units, chilled beams, reversible ceilings, VAV... Additionally, HLC controllers can control natively DALI lights.



Key benefits

- ▶ one single product to manage light and room temperature
- ▶ direct DALI light control
- ▶ 2 × window contact inputs
- ▶ 2 × 0...10 V inputs
- ▶ 2 × temperature sensor input
- ▶ standard communication protocols:
 - LonWorks®
 - DALI
 - Bluetooth

Functions

- ▶ Temperature control by actions on cooling/heating valves
- ▶ Ventilation control in two configurable modes: variable speed or 3 speeds fan
- ▶ Air quality control by driving fresh air valve or by variable speed ventilation
- ▶ Electric heater load shedding and blowing temperature limitation
- ▶ Free input and output configuration
- ▶ Integrated test functions for direct output control
- ▶ Lighting control via native DALI bus
- ▶ Blinds control directly by add-on module or the LonWorks® network
- ▶ Wide accessories range: room sensors, multi-sensors directly with DALI Bus
- ▶ Factory configuration for autonomous operating with SBC accessories without engineering

Product Range

	PCD7.L60L-C4230	PCD7.L60L-C224
4 outputs 230 VAC for 4 thermal valves or 2 × 3 pts valves. Inrush current max 3 A / Constant current 1 A	●	–
2 additional relays for 3 speed fans	●	–
4 outputs 24 VDC for 4 thermal valves or 2 × 3 pts valves. Inrush current max 3 A. Maximum power in 24 VAC 5 VA	●	●
2 outputs 3 points 24-0-10 V for 0...10 V valves powered in 24 VDC. Max power 5 VA	–	●
2 outputs for 24 VDC PWM valves. Inrush current 3 A / maximum power 5 VA	–	●

Mechanical properties

Casing	ABS V0 / IP20
Dimensions	L 143 × l 95 × h 65 mm
IP	IP20
Weight	400 gr

Connectors

Plug in connectors with screw

Except

- DALI connection: spring terminal, fixed wire 1.5 mm²
- electric heater: screw terminal

Norms / Warranty

Directive 2014/35/UE "Low tension"

Directive 2011/65/UE "RoHS directive"

Directive 2014/30/UE "Electromagnetic compatibility"

Commons inputs

2 inputs digital for window or auxiliary contact

- max length 100 m
- impedance < 600 ohms

2 inputs NTC 10K (10 kOhms)

can be connected to:

- ▶ VF10-1B65NW Immersion Temperatur Sensor 150 mm
- ▶ VF10-5B65NW Immersion Temperatur Sensor 50 mm
- ▶ KTF10-2B65 Cable Immersion Sensor 2 m
- ▶ (NTC 20K on demand)

+ or -0,1 °C out of sensor at 20 °C

max length 3 m

2 inputs digital or NTC

2 inputs 0...10 V

Electrical specifications

Power supply	100 to 240 V / 50 to 60 Hz
Standby consumption	1.2 W
Maximum electric power	4 A
Protection	circuit breaker 4 A Classe D

Network connections

4 terminal blocks DALI double connection without polarity

Wiring from 0.5 to 1.5 mm²

Electric power max 200 mA

2 terminal blocks LONWORKS®:

approved LONWORKS® cable type BELDEN 7701NH

Environment

Operating temperature 5 °C to +45 °C

Storage temperature -20 °C to +70 °C

Humidity +20 % to +90 % non condensing

Commons outputs

1 relay output S1 / 230 V / 3 A maximum

– for fans or variable speed fans

2 analog outputs 2 mA max

– for variable speed fan, 0...10 V valve or others

1 digital output for electric heater

– 230 VAC / 1 kW (2 kW on demand)

– max 5 A, 16 A max inrush current

– Max operation number: 300 000

24 VDC / 12 VA continuous supply for following valves:

– PWM valves 24 VDC

– thermal valves 0...10 V, 24 VAC

– motorised valves 24 VDC

24 VAC valves must be checked by our technical services or please include external 230/24 VAC transformer

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