> ROOMBUS POWER SUPPLY PS230-30-15RE
Comforte line

Characteristics

- part of the Comforte line
- versions available with various connectors
- three Roombus connections
- 24 VDC power supply for Roombus devices

Part of the Comforte line

The power supply module is part of the Comforte line. The power supply module supplies 24 VAC power to the Comforte CX2(E) or the Comforte CX2 VAV and the connected sensors and actuators. In addition, the power supply module has connectors and a 24 VDC power supply for Roombus devices.

Versions available with various connectors

Two variants of the power supply module are available. These have different power supply input connectors:

- pluggable terminal block
- pluggable GST18 connector

Three Roombus connections

The power supply module has three Roombus connections. The Roombus connections are interconnected and thus form a neutral point for connecting Roombus devices. One Roombus connection is connected to the Roombus connection of the Comforte CX2(E) or Comforte CX2 VAV, thus allowing communication via the Roombus interface on the Comforte CX2(E) or the Comforte CX2 VAV. The other two Roombus connections are used for connecting Roombus devices.

24 VDC power supply for Roombus devices

The power supply module supplies 24 VDC power for the connected Roombus devices. The power supply module can be used if a Comforte CX PS230-30(E) or Comforte CX VAV PS230-30 power supply module does not supply sufficient power for the connected Roombus devices.

The Comforte-line range

Name	Description
Comforte CX base module	module with processor, memory, communication and I/O on the main circuit board
Comforte CX2 base module	
Comforte CX2E base module	
Power supply module PS230-30 (GST/SC)	module for 24 VAC power supply to base module, I/O modules and any sensors and actuators
Power supply module PS230-30E (GST/terminal block)	
Roombus power supply module PS230-30-15RE (GST/terminal block)	module for: • 24 VAC power supply to base module, I/O modules and any sensors and actuators • 24 VDC power supply and neutral point connection of Roombus devices
Fan module RO1-3 (GST/SC)	I/O module with relay for fan control (on/off, 2 or 3 speed)
Lighting module RO2-1L (GST/SC)	I/O module with relay for switching 2 lighting groups on/off
Lighting module RO2-1L NC (GST/SC)	I/O module with relay (normally closed) for switching 2 lighting groups on/off
Sun blind module RO2-2 (GST/SC)	I/O module with relay for controlling 2 sun blind motors
Sun blind module RO2-2 DC (BL/SC)	I/O module with relay for controlling 2 sun blind motors
TRIAC output module SO4-1 (GST/SC)	I/O module with 4 TRIAC outputs
Analogue output module AO2-1 (GST/SC)	I/O module with 2 analogue outputs
Comset CX	Operating unit

General specifications of the Comforte line

Housing	
Material	aluminium with plastic end plates
Colour	aluminium with grey-black (RAL 7021) end plates
Shape	as per DIN 43880
IEC protection class	I (basic insulation with earth wire)
IP code	IP20 (NEN-EN-IEC 60529)
Flammability	HB
Recycle code	7
Mounting [1]	snaps onto DIN rail on gusset plate using 4x M5 bolts (maximum screw depth: 5.5 mm) in an enclosed control panel, distribution box, above a suspended ceiling or in a public space

[1] In the case of installation in a closed housing, Priva recommends applying ventilation openings in the housing. This will reduce the temperature of the electronic components and thus extend the service life. The temperature in the housing must always be within the specified permissible temperatures.

Environment	
Permissible temperature when system operating	0 ... 50°C
Permitted temperature during transport and storage	-20 ... 70°C
Permissible ambient relative humidity	80% at T <= 30°C, decreasing linearly to 50% at T = 40°C (non condensing)
Installation category	II
Permitted ambient pollution	pollution degree 2

Legislation and standards	
EC Declaration of Conformity	The Comforte CX line is in accordance with the following directives and associated standards and normative documents: • Low Voltage Directive 2014/35/EU • EMC Directive 2014/30/EU Safety standard: • EN 61010-1: 2010 EMC standards: • EN 61326-1 (2013) • EN 61000-6-1 (2007) • EN 61000-6-2 (2005) + AC (2005) • EN 61000-6-3 (2007) + A1 (2011) • EN 61000-3-2 (2006) + A1 (2009) + A2 (2009) • EN 61000-3-3 (2008) • WEEE directive 2012/19/EU • RoHS directive 2011/65/EU You can find an original version of the EC Declaration of Conformity on the Priva Support Portal: https://support.priva.nl.

I/O connections	
Type of connector (module dependent)	spring clamps pluggable terminal block plug-in GST18 connector plug-in screw connectors

Spring clamps	
Permitted core cross section area	solid or flexible: 0.5 to 2.5 mm² flexible with crimp-on terminal in accordance with DIN 46228/1: 0.25 to 1.5 mm²

Terminal block: RS485 connector	
Permitted core cross section area	solid: 0.2 ... 1.5 mm² (25 ... 16 AWG) flexible with crimp-on terminal: 0.2 ... 1.0 mm² (25 ... 17 AWG)
Strip length/connector length	solid: 8 mm (0.31 inch) flexible with crimp-on terminal: 8 mm (0.31 inch)

Other terminal blocks	
Permitted core cross section area	solid: 0.2 ... 2.5 mm² (25 ... 14 AWG) flexible with crimp-on terminal: 0.2 ... 2.5 mm² (25 ... 14 AWG) flexible with double ferrule connector: 0.2 ... 1.5 mm² (25 ... 16 AWG)
Strip length/connector length	solid: 10 mm (0.39 inch) flexible with crimp-on terminal: 10 mm (0.39 inch) flexible with double ferrule connector: 12 mm (0.47 inch)

Specifications

General		
Article	Roombus power supply module PS230-30-15RE GST18 *From October 2019, the connector for the power supply output and the grounding of the 0 VAC has been changed. Product name for this change: Roombus power supply module PS230-30-15R GST18*	Roombus power supply module PS230-30-15RE *From October 2019, the connectors for power supply input and output and the grounding of the 0 VAC have been changed. Product name for this change: Roombus power supply module PS230-30-15R SC*
Article number	400049	400059
Dimensions	144 x 90 x 72 (W x H x D in mm) (8TE)	
Weight	1.09 kg	

Supply input		
Type of connector	3-pin GST18 connector (male) (Code 1)	5-pin pluggable terminal block *Before October 2019, this product was supplied with a 5-pin pluggable screw connector*
Voltage	230 VAC (196 to 253 VAC)	
Required mains frequency	50 Hz / 60 Hz	
Used power	60 VA	
Required installation fuses	maximum 16 A	

Power supply output 24 VAC	
Type of connector	3-pin pluggable terminal block *Before October 2019, these products were supplied with a 3-pin pluggable screw connector*
Rated voltage	24 VAC ± 0.5 V
Open circuit voltage at nominal input voltage	27 VAC ± 0.5 V
Maximum load current	0.9 A (continuous) 1.25 A (for 2 minutes)
Protection	glass fuse 1.25 A(T), 5 x 20 mm

Roombus connection	
Number of connections	3
Type of connector	RJ45
Output voltage	24 VDC +/-5%
Maximum load current	at ambient temperature < 35°C: 625 mA (15 W) at 35°C < ambient temperature < 50°C: derating -20 mA/°C (-0.48 W/°C) example: at 40°C: 525 mA (12.6 W) at 45°C: 425 mA (10.2 W) at 50°C: 325 mA (7.8 W)
Protection	internal self-resetting overload protection (hiccup mode)

LEDs	
VAC OUT	LED on indicates voltage at the power supply output VAC
VDC OUT	LED on indicates voltage at the Roombus connection

Accessories		
Article number	**Article**	**Usage**
- (supplied)	Roombus interface patch cable (35 cm)	connecting the Roombus connection of the Comforte CX2(E) or Comforte CX2 VAV to the power supply module
160151	Cable, Comforte CX VAV base - external power supply	connecting the power supply module to the Comforte CX2 VAV base module

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