

AEPS-230-24-10

Power Supply for comfort ventilation systems

Features

- 230 V power supply
- 24 VAC / 10VA nominal output voltage
- Master-Slave or parallel configuration of actuators
- Power indication LED
- RJ12 socket for configuration of actuators
- IP40
- Up to 3 VAV controllers simultaneously connectable.
- Suitable for wall mounting

Applications

The power supply AEPS-230-24-10 provides 10 VA 24 VAC power to VAV controllers, actuators and room controllers or positioning devices.

VAV applications

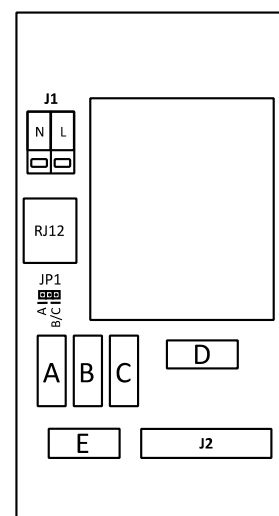
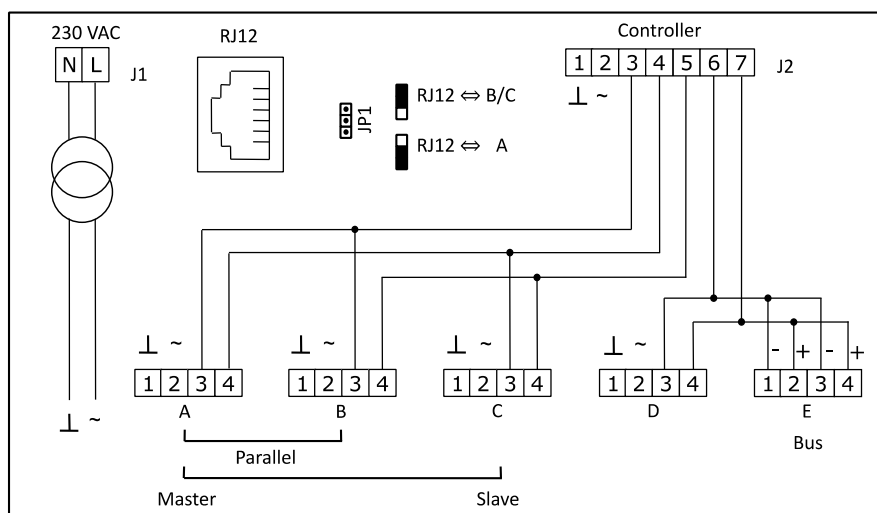
Master-slave / parallel circuits can be done by simply plugging in the actuator plug to the appropriate connector. A RJ12 plug allows connection of the actuators programming tool for configuration of programmable actuators.

The power supply unit has been designed to prevent plugging in B and C simultaneously in order to prevent possible shorting.

Types and Ordering

Product name	Product No.	Description
AEPS-230-24-10	40-50 0019	Power supply 230 V to 24 V with 10 VA output for VAV controllers and actuators

Wiring diagram



Connection description

J1	Supply 230 V
J2	Control unit / control signal 1 = 24 VAC ⊥ 2 = 24 VAC ~ 3 = 2...10 VDC control signal for drive A and B 4 = Feedback signal from A as well as control signal for C 5 = Feedback signal from B or C 6 = Control signal drive D 7 = Feedback signal drive D
RJ12	Programming device JP1 - B/C = RJ12 Connected to Actuator B or C JP1 - A = RJ12 Connected to Actuator A
A,B,C,(D)	Actuators - drive, VAV controllers 1 = 24 V ⊥ 2 = 24 V ~ 3 = 2...10 V control signal 4 = Feedback signal

A = Intake
B = Exhaust parallel
C = Exhaust slave

E	Bus 1 = - 2 = + 3 = - 4 = +
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Application variants

Function	Plug A	Plug B	Plug C	Plug D	Plug E
Master / Slave	Master-actuator	-	Slave-actuator	-	-
Parallel	Actuator 1	Actuator 2	-	-	-
Single drive	-	Actuator 1	-	-	-
Heating / cooling	Heating actuator	-	-	Cooling actuator	-
Communication	-	-	-	-	Bus

Technical specification

Safety advice

The power supply may not be used in connection with devices which can serve health, directly or indirectly or life-saving purposes or may cause the actual danger to persons and property.

Power supply	Operating voltage	210...250 VAC, 50/60 Hz
	Max. power	10 VA
	Electrical connection	Terminal connectors, wire 2x 1...2.5 mm ²
Outputs	Nominal voltage	20...27 VAC
	Connections	
	Drive and VAV-controllers Control Configuration	Plug 4 x 0.34...1,5 mm ² Screw terminals: 7 x 0.34...2.5 mm ² RJ12
Environment	Operation	To IEC 721-3-3
	Climatic conditions	Class 3K5
	Temperature	-10...+40 °C (14...104 °F)
	Humidity	< 90% RH non-condensing
	Transport and Storage	To IEC 721-3-2 and IEC 721-3-1
	Climatic conditions Temperature Humidity Mechanical conditions	Class 3 K3 and class 1 K3 -25...70 °C (-13...158 °F) < 90% RH non-condensing Class 2M2
Standards	 conform according to 2014/30/EU EMC 2014/35/EU LVD	EN 61000-6-1 / EN 61000-6-3
	Degree of protection	IP40 (EN 60529)
	Environment class	II (EN 60730-1)
	Safety class	II (IEC 60536)
	Overvoltage category	III (EN 60730-1)
	Material	PC+ABS plastic
	Dimensions (L x B x H)	160 x 75 x 50 mm (6.3 x 3.0 x 2.0 in)
General	Weight (incl. package)	550 g (19.4 oz)

Dimensions mm (inch)

