

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
- 2 RJ12 sockets 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.

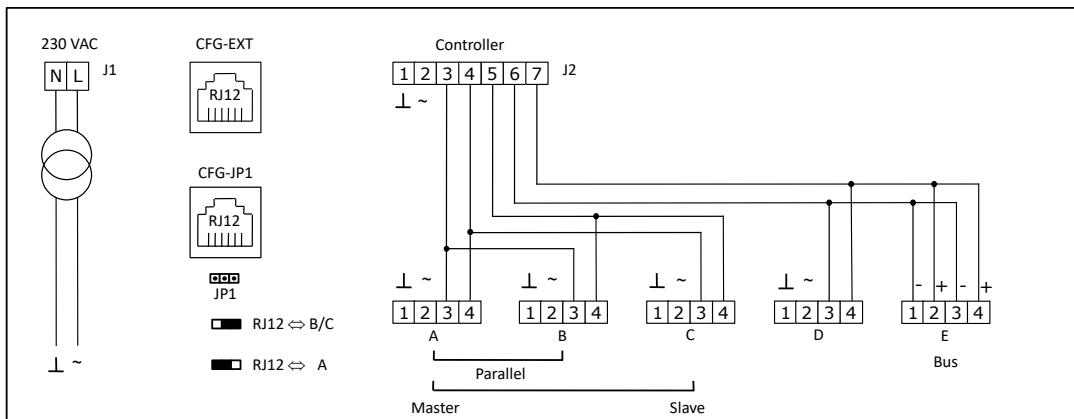
Two RJ12 sockets allow easy connection of a programming tool for VAV actuators. With CFG-JP1 supply or return air actuator are selectable with JP1. CFG-EXT uses an external switch (AEC-SW1-RJ12) to select supply or return air actuators.

The power supply unit has been designed to prevent plugging in B and C simultaneously 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
AEC-SW1-RJ12	40-50 0171	Interface for switching between supply and return air actuators.

Wiring diagram



Connection description


J1	Supply 230 V			
J2	Control unit / control signal			
CFG-EXT	Programming device for external A - BC switch			
CFG-JP1	Programming device for internal A - BC switch (JP1)			
A,B,C,(D)	Actuators - VAV controllers		Bus	
A = Intake B = Exhaust parallel C = Exhaust slave	1 = 24 V ⊥ 2 = 24 V ~ 3 = 2...10 V control signal 4 = Feedback signal	E	1 = - 2 = + 3 = - 4 = +	

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)	
	General	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)
		Weight (incl. package)	550 g (19.4 oz)

Dimensions mm (inch)
