

## 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
- RJ11/4 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

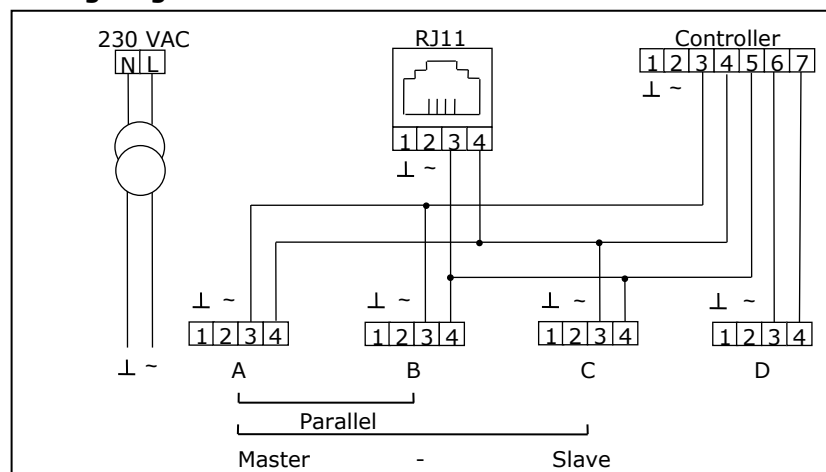
Master-slave / parallel circuits can be done by simply plugging in the actuator plug to the appropriate connector. A RJ11 plug allows connection of the actuators programming tool for configuration of programmable actuators.

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

#### Ordering

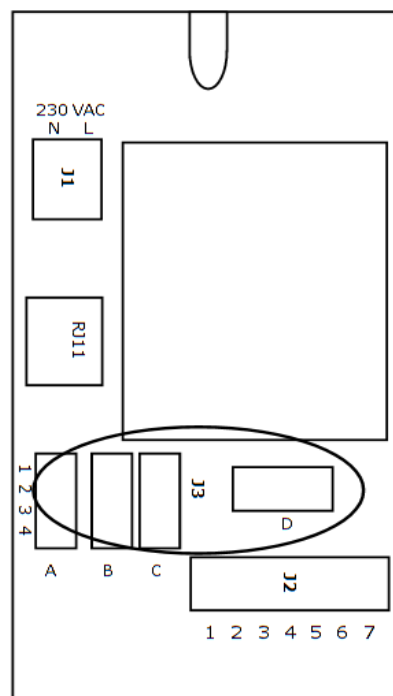
| Item name      | Item code  | Description                                                                    |
|----------------|------------|--------------------------------------------------------------------------------|
| AEPS-230-24-10 | 40-50 0019 | Power supply 230 V to 24 V with 10 VA output for VAV controllers and actuators |

#### Wiring diagram



#### Connection description

|      |                                                            |
|------|------------------------------------------------------------|
| J1   | <b>Supply 230 V</b>                                        |
| J2   | <b>Control unit / control signal</b>                       |
|      | 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 from D                                  |
|      | 7 = Feedback signal drive D                                |
| J3   | <b>Actuators</b> - drive, VAV controllers                  |
|      | 1 24 V ⊥                                                   |
|      | 2 24 V ~                                                   |
|      | 3 2...10 V control signal                                  |
|      | 4 Feedback signal                                          |
| RJ12 | <b>Programming device</b>                                  |



**Application variants**

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

**Technical specification**

**Caution!** 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.

|                     |                                                                                                         |                                                      |
|---------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Power supply</b> | Operating voltage                                                                                       | 210...250 VAC, 50/60 Hz                              |
|                     | Max. power                                                                                              | 10 VA                                                |
|                     | Electrical connection                                                                                   | Terminal connectors, wire 2x 1...2.5 mm <sup>2</sup> |
| <b>Outputs</b>      | Nominal voltage                                                                                         | 20...27 VAC                                          |
|                     | Connections                                                                                             |                                                      |
|                     | Drive and VAV-controllers                                                                               | Plug 4 x 0.34...1,5 mm <sup>2</sup>                  |
| <b>Environment</b>  | Control                                                                                                 | Screw terminals: 7 x 0.34...2.5 mm <sup>2</sup>      |
|                     | Configuration                                                                                           | RJ11                                                 |
|                     |                                                                                                         |                                                      |
| <b>Standards</b>    | 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                                                                                     | Class 3 K3 and class 1 K3                            |
|                     | Temperature                                                                                             | -25...70 °C (-13...158 °F)                           |
|                     | Humidity                                                                                                | < 90% RH non-condensing                              |
|                     | Mechanical conditions                                                                                   | Class 2M2                                            |
|                     |  conform according to |                                                      |
|                     | 2014/30/EU EMC                                                                                          | EN 61000-6-1 / EN 61000-6-3                          |
|                     | 2014/35/EU LVD                                                                                          |                                                      |
|                     | Degree of protection                                                                                    | IP40 (EN 60529)                                      |
|                     | Environment class                                                                                       | II (EN 60730-1)                                      |
|                     | Safety class                                                                                            | II (IEC 60536)                                       |
| <b>General</b>      | 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)                |
|                     | Weight (incl. package)                                                                                  | 550 g (19.4 oz)                                      |

**Dimensions mm (inch)**
