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## Analog voltage signal regulator 0-10V

# ZU-10

in a housing for a DIN rail

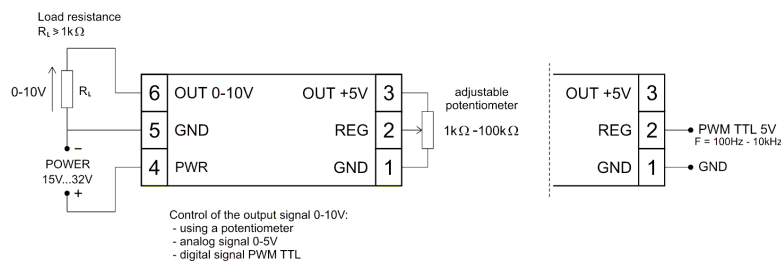


The ZU-10 voltage regulator is used for forcing the DC voltage in the range of 0-10V by means of a regulation potentiometer or by means of electric signals - analog 0-5V or digital PWM (TTL 0-5V 100Hz - 10kHz).

The unit provides a stable voltage on the output regardless of changes in the load resistance (within an acceptable range).

The device is used to control devices having voltage analogue inputs, for example to control the position of regulated dampers or motor revolutions. It can also be used as a test bench for checking analog voltage circuits.

### Connection diagram of ZU-10 regulator.



### Technical data.

- power supply voltage  $U_{sv}$ : **+15V to +32V**
- power consumption: **10mA max** (outputs not loaded)
- accuracy of voltage stabilization on outputs OUT 5V and OUT 0-10V: **+/- 0.2%**
- load resistance of outputs OUT 5V i OUT 0-10V: **1k $\Omega$  or more**
- short-circuit protection on both outputs: **30mA** - max short-circuit current of outputs
- input resistance of the regulating input REG: **1M $\Omega$**
- the value of the regulating potentiometer: **1k $\Omega$  - 100k $\Omega$**
- parameters of the PWM control signal: **0-5V** (TTL standard), pulse frequency: **100Hz - 10kHz**
- temperature range and working conditions: **+5 $^{\circ}$ C - +45 $^{\circ}$ C**, dry rooms
- mass of the device: **below 50g**
- level of security: **IP20**
- housing dimensions: **17.5 x 94 x 65 mm**
- work position: **any**
- assembly: **in a housing for a DIN rail (TS35)**

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