



FREQUENCY-TO-VOLTAGE CONVERTER MODULE



Function

TACHO 2 is used for linear conversion of signals with frequencies from 0 to 1 kHz into signals with voltages from 0 to 10V.

The module consists of 2 (two) independent channels. The input signals have 0 and 24V levels, which allow direct connection to transistor outputs of controllers or other devices without additional components in between.

The module can be used for control of devices needing analog input signals, such as frequency invertors, proportional solenoid valves, etc. The use of frequency as an input parameter allows covering big distances and provides considerable noise immunity. The possibility to use ordinary transistor outputs to generate input signals for TACHO 2 allows implementation of large number of cheap analog channels without using expensive DACs.

The module is placed in a plastic enclosure which can be connected to a DIN rail S35.

Specifications

Number of channels - 2

Input circuits

- frequency of the input signals from 0Hz to 1000Hz;
- low level of the input signals from 0V to 2V;
- high level of the input signals from 15V to 28V;
- maximum input current 40mA.

Output circuits

- voltage of the output signals from 0V to 10V;
- conversion accuracy 1%;
- maximum output current 30mA.

Control voltage - constant, filtered:

- minimum value 20 VDC;
- maximum value 28 VDC;
- maximum consumed current 100mA.

• Operation conditions:

Ambient air temperature from 0°C to 55°C
Relative humidity of the air from 40 to 80%

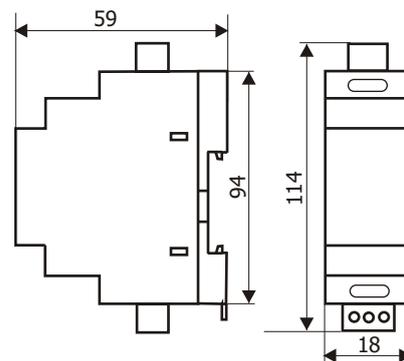
• Storage conditions:

Ambient air temperature from minus 40°C to 70°C
Relative humidity of the air not more than 85%

Connection diagram



• Overall and fixing dimensions



• Mounting instructions

Fix vertically on a DIN rail.

ISOMATIC COMPLECT Ltd

•Manufactures: universal and specialized programmable logic controllers with many digital and analog peripherals; multichannel regulators, solid-state relays, signal transmitters, etc.

•Designs and implements automated systems for machines and processes in all branches of industry and power engineering.