

KOV16

Analogue output module

Functions

- Analogue output module for MMS devices
- Forwarding of analog voltage signals to actuators
- 16 analog outputs with common potential
- Galvanic isolation between output and power supply
- Connection to other modules via RS485 bus
- Output short circuit LED indication
- Software output voltage range setting:
 - 10V to 10V
 - 0 to 10V
 - 0 to 5V
 - 5V to 5V
 - 2.5V to 2.5V

Application

The analog voltage output module KOV16 provides connected equipment with analog voltage signals with values received via the RS485 bus either from SCADA directly or from Atlas RTL[®].

Design

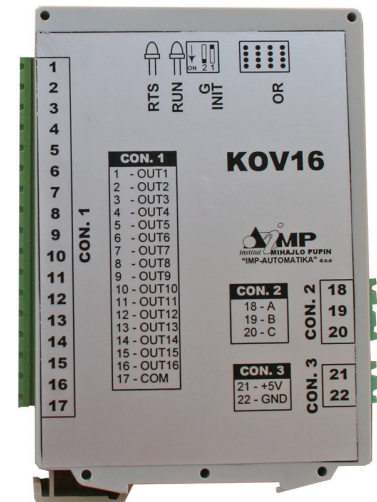
Cabur CH boxes (dimensions WxDxH 24x85x121mm)

Connections

On the lower side, there are 17 pin relays for performing voltage outputs and on the upper side there are 3 pin relays for the RS485 bus and 2 pin relays for power supply. The analog outputs are galvanically isolated from the power supply.

Technical specification

| | |
|------------------------------|--|
| Operating temperature | 0 to 50 °C |
| Operating humidity | 5 to 95% RH |
| Voltage outputs types | 0 to 10V, 0 to 5V, -10V to 10V, -5V to 5V, -2.5V to 2.5V |
| Power supply | 5VDC |
| Consumption | max 100mA@5V |



Pin layout

| CON.1 | | |
|-------|-------------|------------------------------|
| PIN | Signal name | Description |
| 1 | OUT1 | OUTPUT1 |
| 2 | OUT2 | OUTPUT2 |
| 3 | OUT3 | OUTPUT3 |
| 4 | OUT4 | OUTPUT4 |
| 5 | OUT5 | OUTPUT5 |
| 6 | OUT6 | OUTPUT6 |
| 7 | OUT7 | OUTPUT7 |
| 8 | OUT8 | OUTPUT8 |
| 9 | OUT9 | OUTPUT9 |
| 10 | OUT10 | OUTPUT10 |
| 11 | OUT11 | OUTPUT11 |
| 12 | OUT12 | OUTPUT12 |
| 13 | OUT13 | OUTPUT13 |
| 14 | OUT14 | OUTPUT14 |
| 15 | OUT15 | OUTPUT15 |
| 16 | OUT16 | OUTPUT16 |
| 17 | COM | Voltage outputs common point |

| CON.2 | | | CON.3 | |
|-------|-------------|-------------------------|-------|-------------|
| PIN | Signal name | Description | PIN | DESCRIPTION |
| | RS485 | | 21 | +5V |
| 18 | A | Reception/transmission+ | 22 | GND |
| 19 | B | Reception/transmission- | | |
| 20 | V | Joint point | | |

Output circuit block diagram

