



MIDAM

MIDAM 600 Analog Output Modul



MIDAM 600 is an intelligent module with a 0 to 10V voltage output or 0/4 to 20 mA current analog output. The resolution between output voltage and output current is 12 bit. The condition of the outputs may be controlled via the RS485 communication bus. The module has to be installed on a DIN strip.

The module communicates and is controlled solely via the RS485 data bus. Its communication protocol is identical with the ADAM 4000 module series produced by ADVANTECH company. The **MIDAM 600** sensor operates in the same way as the ADAM 4021 module. This means that a standard actuator used with the ADAM modules can be used for control in various programmes.

The module wiring to the RS485 bus is provided by two RJ45 connectors. The connectors are in parallel connection. Thus it is possible to lead the bus from the module further to other modules in the network. Communication inputs are protected against overvoltage. In case that the converter has been installed as a terminal device on the bus, a terminating resistor may be used. To attain this, remove the case cover and connect the terminal resistor to the line by short-circuiting the contacts on the printed circuit board.

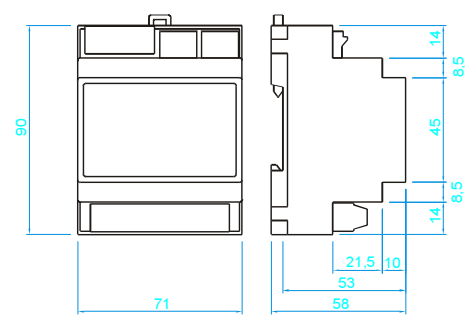
Some communication cables include more wire pairs in a cable. Therefore the convertor has been designed to allow that the module power supply can be brought via the free conductors in the cable. This measure makes the module installation easier and reduces the cabling requirements.

All adjustments are saved in an EEPROM memory. The module is fitted with the WATCHDOG circuit which is guarding proper operation of the processor. There are two LEDs on the top panel indicating communication with the module and power supply connection.

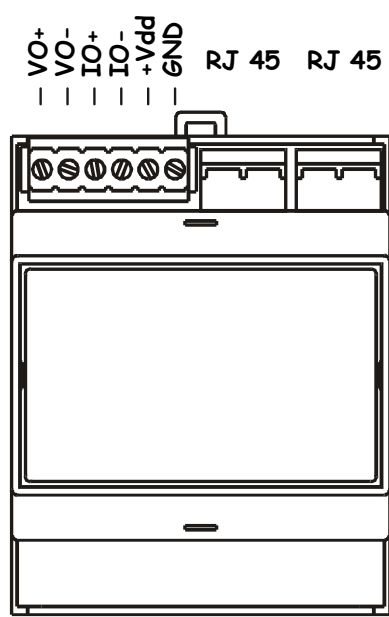
Technical data

Supply voltage	10 V ÷ 35 V DC non-regulated 14 V ÷ 24 V AC
Power input	1 W
Permissible module inner temperature	0 ÷ 70°C
Communication properties	data transmission via RS 485 data bus baud rates: 1200, 2400, 4800, 9600, 19200 Bd max. segment length: 1200 m, asynchronous transmission up to 256 modules per one serial port communication protocol identical with the ADAM 4000 modules
The number of outputs	1
Output range	0 to 10V 0 to 20 mA, resp. 4 to 20 mA
Effective resolution	12 bit
Accuracy	0,1%
Output impedance	1Ω
Current output loading	< 500 Ω

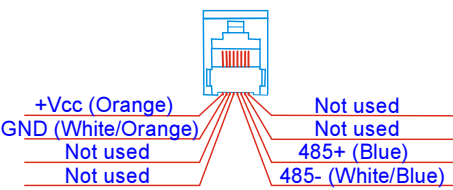
Module external dimensions



Terminals wiring



Recommended wiring of the RJ 45 connector



Designation	Description
VO+	+ voltage output terminal
VO-	- voltage output terminal
IO+	+ current output terminal
IO-	- current output terminal
+Vdd	+ module power supply terminal
GND	- module power supply terminal
RJ 45	Connectors for wiring a data bus and possibly for power supply to the module

As an optional feature available on customer's demand, another communication protocol may be implemented into the module or the module can be programmed as a control module.

MIKRO

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