

M620

Analogue current outputs module



Summary

M620 analogue output module is a microprocessor-controlled, communicative module containing 4 galvanically separated current outputs 4...20 mA. The module uses Modbus RTU on a RS485 bus for communication, and can be easily integrated in a variety of supervision and control systems.

Applications

- HVAC and industrial control systems – analogue peripheral control, variable speed drives etc.

Function

The outputs of the module are controlled via the communication bus and can be used as four independent 4...20 mA current outputs. The outputs are separated both from power part and communication circuits, and between each other.

The module communicates by means of a RS485 data bus. The communication protocol ensures smooth and easy integration in a number of control and data acquisition systems. The Modbus register table is available on demand.

Removable connectors are used for signals and data line so that mounting is fast and easy. The module can be mounted on a standard DIN rail.

The communication circuits are protected against overvoltage. If the module is terminating the communication bus, i.e. it is the last in line, a terminating 120 Ω resistor may be switched on by short-circuiting of the BUS END jumpers. Two LEDs located inside of the housing enable fast diagnostics – power up and communication.

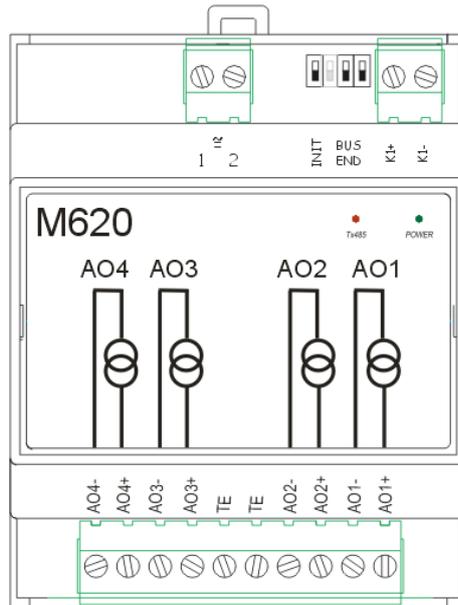
See *domat - Technical application notes* for connection examples.

All the settings are backed up in a EEPROM chip. The module is equipped with a watchdog circuit.

Technical data

Supply voltage	10 V ÷ 35 V DC, 14 V ÷ 24 V AC
Consumption	2000 mW
Working temperature of the module	0 ÷ 70°C
Communication	RS485, 1200 ... 19200 bit/s
Max. bus length	1200m
Max. number of modules on the bus	256
Number of analog outputs	4
Output range	4...20 mA DC
Output load	< 500 Ω
Effective resolution	12 bit
Dimensions	see below

Terminals



Marking	Description
AOx+ , AOx-	+ , - of current output x
TE	technical ground
1, 2	power, any polarity
K1+, K1-	communication

BUS END : terminates the RS485 bus
 INIT: if ON, sets default communication parameters (9600 bps, address 1) after module re-start

Dimensions

