![domat control system logo]

M200   Digital output module

Summary

The M200 digital output module is a microprocessor-controlled, communicative 4 binary outputs module. The module uses a RS485 bus for communication, and can be easily integrated in a variety of supervision and control systems.

Applications

- ▪ **HVAC and industrial control systems – binary signal control**

Functions

The M200 module has four independent relays which are capable of switching voltage up to 380 VAC or 150 VDC, max. current 10 A.

The module communicates by means of a RS485 data bus. Its communication protocol ensures smooth and easy integration in a number of control and data acquisition systems.

Removable connectors are used for incoming and outgoing data line so that mounting is fast and easy. As some communication cables include more pairs in one cable, free cores may be used for powering the module.

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. Four LEDs at the outputs indicate the status of each of the outputs separately.

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 and the communication part is galvanically separated.
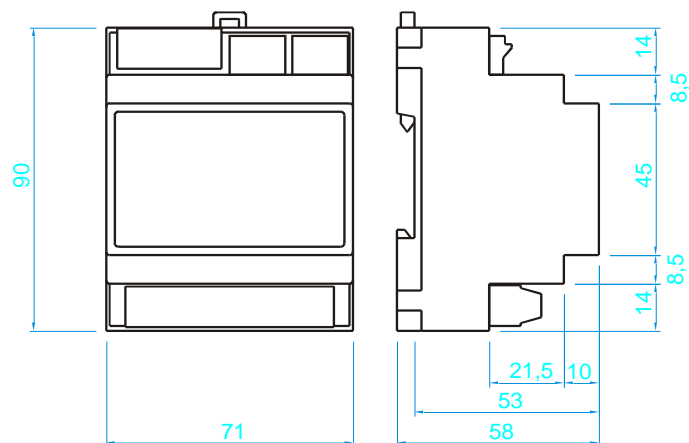
Technical data

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 binary outputs	4, separated from each other
Relay type	Change over
Nominal contact load	8 A at 250 VAC, 8A at 24VDC
Max. contact voltage	380 VAC, 150 VDC
Max. current	10A
Number of switch cycles	min. $5*10^5$
Dimensions	see below

Terminals
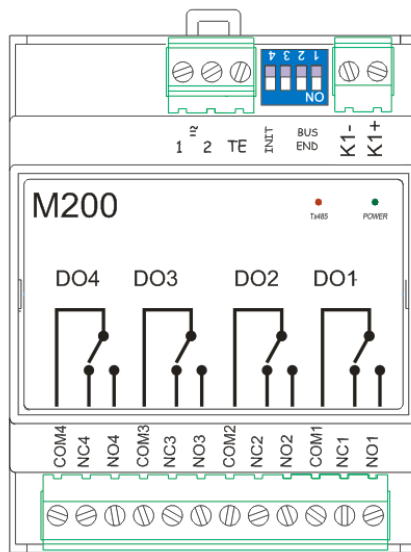
Marking	Description
NO1 to NO4	normally open
NC1 to NC4	normally closed
COM1 to COM4	common terminal
1, 2	power, any polarity
TE	technical GND
K1+, K1-	communication bus

Dimensions

7/2013 Subject to technical changes.