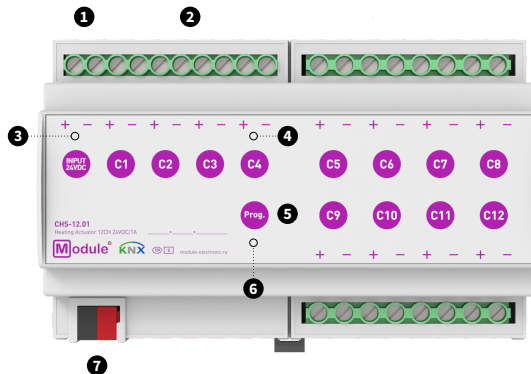# HEATING ACTUATOR
CHS-12.01

BASIC INFORMATION

The heating actuator is designed to control water heating systems with thermoelectric valves with a supply voltage of 24V DC.

- 12 independent outputs 24V DC
- Ability to connect up to 3 valves per output
- LED indication of output status
- Valve NO / NC operation mode selection
- Function of protection of valves against «sticking»
- Short circuit and overload protection
- Saving settings during a KNX power failure
- Power supply via KNX bus
- Valves powered by external 24V DC power supply
- DIN rail 35 mm mounting

1. Input 24B DC   2. Outputs 24B DC   3. External power indicator LED
4. Output status indicator LED   5. Programming button   6. Programming LED
7. KNX connector

SPECIFICATIONS

Device model	CHS-12.01	
Outputs (control channels)		
Number of outputs	12	
Output type	MOSFET	
Rated current per output	1A/24V DC	
Number of connected valves to the output	up to 3 pcs.	
Short circuit protection	Yes	
Overload protection	Yes	
Cross-section of the connected wire to the screw terminals	0,5-4mm²	
KNX interface		
Specification	TP-256	
Available application software	ETS 5	
KNX connector	4-wire EIB connector (PUSH WIRE spring clips) for standard cable TP1 0,8мм Ø	
Power supply	via KNX bus	
Consumption on the KNX bus (29V DC)	< 5mA	< 150mW
Valve power	External power supply 24V DC	
Operation temperature	0°C .. + 45°C	
Operation humidity	5 .. 95% (no condensation)	
Degree of protection	IP 20, clean environment	
Mounting type	DIN rail 35mm	
Dimensions	142,3 x 90,5 x 62mm (8TE)	
Weight	254g	

INSTALLATION

Attaching to DIN rail

Removing from DIN rail

WIRING DIAGRAMS

Valve 1 · Valve 2 · Valve 3 · Valve 4 · Valve 5 · Valve 6 · Valve 7 · Valve 8

External power supply

OUT1 · OUT2 · OUT3 · OUT4 · OUT5 · OUT6 · OUT7 · OUT8

V1+ V1-
DC 24V

Connect no more than 3 valves per channel!

KNX

OUT9 · OUT10 · OUT11 · OUT12

Valve 9 · Valve 10 · Valve 11 · Valve 12

KNX bus

SAFETY INSTRUCTIONS

⚠️ **ATTENTION!** Installation and connection of the device to the mains must only be carried out by qualified personnel! Be sure to turn off the power before installing or removing the device! Even when the device is turned off, the output terminals can be live! Do not connect to the outputs a load that exceeds the recommended values! The design of the device meets the requirements of electrical safety according to GOST 12.2.007.0-75.

SETTING INSTRUCTIONS

The device is set up in accordance with the instruction manual. (The full manual and application program can be downloaded at https://module-electronic.ru/documents or by scanning the QR code at the bottom of the document).

TRANSPORTATION, STORAGE AND DISPOSAL

The conditions for the transportation of devices must comply with conditions 5 of GOST 15150-69.
Storage of devices in packaging at the warehouses of the manufacturer and consumer must comply with storage conditions 1 in accordance with GOST 15150-69. After transportation or storage at low temperatures, it is necessary to withstand the device at room temperature for at least 2 hours before turning it on. Do not dispose of the device with household waste.

WARRANTY

Warranty period - 12 months from the date of sale to the consumer. The manufacturer is not liable and does not indemnify for damage caused by the fault of the consumer in case of non-compliance with the conditions of transportation, storage, installation and operation, as well as in case of violation of the seal when trying to repair the device yourself.

All the necessary information on the warranty can be obtained by the consumer by calling Module Electronics or on the website: www.module-electronic.ru.

Serial number _____

Date of sale _____   seller's stamp

Seller Signature _____

Name, address of the trading organization _____

User Manual

Made in Russia   module-electronic.ru