

MDT Heating Actuator 4/8-fold, MDRC

Version		
AKH-0400.02	Heating Actuator 4-fold	2SU MDRC, to control electrothermic valve drives 24-230VAC
AKH-0800.02	Heating Actuator 8-fold	4SU MDRC, to control electrothermic valve drives 24-230VAC

The MDT Heating Actuator receives KNX/EIB telegrams and controls up to independent electrical outputs . Each channel has its own LED indicator.

Each channel supplies up to 4 electrothermic valve drives and can be parameterized individually via ETS. The channels are controllable with PWM (1Bit) or 1Byte telegrams. The integrated temperature controller manages the actuating value given by external KNX temperature sensors. The temperature controller offers comfort-, night-, frost protection- and summer- /winter- operation.

The MDT Heating Actuator detects mains voltage failure and has emergency operation if the cyclic telegram is missing. Additionally they provide objects for heating request and cyclic movement of the valves.

The MDT Heating Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

For project design and commissioning of the MDT Heating Actuator it is recommended to use the ETS or later. Please download the application software at www.mdt.de/Downloads.html

AKH-0400.02



AKH-0800.02



- Production in Germany, certified according to ISO 9001
- **Extensive function extension**
- Each channel controls up to 4 electrothermic valve drives (230VAC)
- Controllable with 1Bit (Switching/PWM) / 1Byte actuating variable or direct control with temperature value via KNX bus
- **Integrated PI temperature controller (Heating and Cooling)**
- Given value is stored at voltage failure
- 1Bit +/-, 1Byte or 2Byte absolute object to set the given value
- Comfort-, night- and frost protection. Summer-/winter operation
- Emergency operation if cyclic actuating variable fails
- Short circuit detection of connected load
- Detection of 230VAC mains voltage failure
- Objects for heating request and cyclic movement of the valves
- **Extensive scene functions**
- **Minimum flow temperature**
- **Diagnostics for each channel with 14Byte plain text object**
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKH-0400.02 AKH-0800.02
Number of outputs	4/8
Output switching current	
24VAC and ohmic load	500mA
230VAC and ohmic load	500mA
max. inrush current**	5A
External switching voltage	24-230VAC
Maximum load	
Number of electrothermic valves*	230VAC: 4 each channel 24VAC: 3 each channel
Output life expectancy	Triac output, wearless
Specification KNX Interface	TP-256
Available application software	ETS 3/4/5
Permitted wire gauge	
Screw terminal	0,5 - 4,0mm ² solid core 0,5 - 2,5mm ² finely stranded
KNX busconnection terminal	0,8mm Ø, solid core
Power supply	KNX bus
Power consumption KNX bus typ.	< 0,3W
Operation temperature range	0 to + 45°C
Enclosure	IP 20
Dimensions MDRC (Space Units)	2/4SU

* depends on manufacturer. Inrush current for 4 electrothermic valves has to be < 1A each electrothermic valve ** every group of four outputs

Exemplary circuit diagram AKH-0800.02

