

MDT Switch Actuator 4/8/12-fold with current measurement, MDRC

Version		
AMS-0416.01	Switch Actuator 4-fold	4SU MDRC, 230VAC, 16A, C-Load 100uF, current measurement
AMI-0416.01	Switch Actuator 4-fold	4SU MDRC, 230VAC, 16A, C-Load 200uF, current measurement
AMS-0816.01	Switch Actuator 8-fold	8SU MDRC, 230VAC, 16A, C-Load 100uF, current measurement
AMI-0816.01	Switch Actuator 8-fold	8SU MDRC, 230VAC, 16A, C-Load 200uF, current measurement
AMS-1216.01	Switch Actuator 12-fold	12SU MDRC, 230VAC, 16A, C-Load 100uF, current measurement
AMI-1216.01	Switch Actuator 12-fold	12SU MDRC, 230VAC, 16A, C-Load 200uF, current measurement

The MDT Switch Actuator receives KNX/EIB telegrams and switches up to 12 independent electrical loads. Each output uses a bistable relay and can be operated manually via a push button. A green LED indicates the switching status of each channel.

The outputs are parameterized individually via ETS3/4. The device provides extensive functions like logical operation, status response, block functions, central function, delay functions and staircase lighting function. Additionally the device provides several time and scene control.

The MDT Switch Actuator offers current measurement for each channel and measurement of the total current. In dependence on the parameterization the measured data can be transmit in different data formats (mA/A/kW) onto the KNX bus. Additionally the device provides an hour/service interval meter.

If the mains voltage fails, all outputs hold their current position. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization.

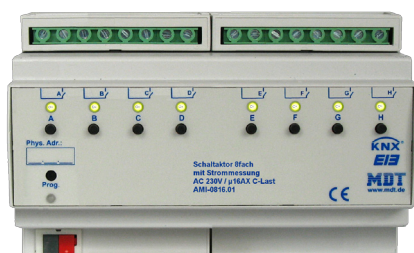
The MDT Switch Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes. The MDT Switch Actuator has a separate power supply terminals for each channel.

For project design and commissioning of the MDT Switch Actuator it is recommended to use the ETS3f/ETS4 or later. Please download the application software at www.mdt.de/Downloads.html

AMS/AMI-04xx.01



AMS/AMI-08xx.01



- Production in Germany, certified according to ISO 9001
- Modern design
- Fully compatible to all KNX/EIB devices
- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data
- 8 scenes per channel
- Hour meter
- Central switching functions and block functions
- Programmable behaviour in case of bus voltage failure or return
- Each contact has an own supply phase
- **Integrated current measurement (current, kWh, limit value)**
- Power supply via KNX bus
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AMS-0416.01 AMS-0816.01 AMS-1216.01			AMI-0416.01 AMI-0816.01 AMI-1216.01		
	Number of outputs	4	8	12	4	8
Current measurement range	20mA - 16A			20mA - 16A		
Output switching ratings						
Ohmic load	16A			16A		
Capacitive load	max. 100uF at 16A			max. 200uF at 16A		
Voltage	230VAC			230VAC		
Maximum inrush current	400A/150µs 200A/600µs			600A/150µs 300A/600µs		
Maximum load						
Incandescent lamps	2700W			3680W		
Halogen lamps 230V	2500W			3680W		
Halogen lamps, electronic transformer*	1000W			2000W		
Fluorescent lamps, not compensated	1800W			3680W		
Fluorescent lamps, parallel comp.	1000W			2500W		
Max. number of electronic transformers	14			28		
Output life expectancy (mechanical)	1.000.000			1.000.000		
Max. fuse per channel	16A			16A		
Permitted wire gauge						
Screw terminal	0,5 - 4,0mm ² solid core 0,5 - 2,5mm ² finely stranded			0,5 - 4,0mm ² solid core 0,5 - 2,5mm ² finely stranded		
KNX busconnection terminal	0,8mm Ø, solid core			0,8mm Ø, solid core		
Power supply	via KNX bus			via KNX bus		
Power consumption	<0,3W	<0,4W	<0,4W	<0,3W	<0,4W	<0,4W
Operation temperature range	0 to + 45°C			0 to + 45°C		
Enclosure	IP 20			IP 20		
Dimensions MDRC (Space Units)	4/8/12SU			4/8/12SU		

* low voltage halogen lamps with electronic transformer

Exemplary circuit diagram AMS/AMI-0816.01

