

## MDT Universal Actuator 4/6/8/16/24-fold, MDRC

Version		
AKU-0416.03	Universal Actuator 4-fold	4SU MDRC, 230VAC, 16A
AKU-0616.03	Universal Actuator 4-fold	4SU MDRC, 230VAC, 16A
AKU-0816.03	Universal Actuator 8-fold	4SU MDRC, 230VAC, 16A
AKU-1616.03	Universal Actuator 16-fold	8SU MDRC, 230VAC, 16A
AKU-2416.03	Universal Actuator 24-fold	12SU MDRC, 230VAC, 16A

The MDT Universal Actuator receives KNX/EIB telegrams and can be used as Switch Actuator or Shutter Actuator. Mixed applications from Switch- and Shutter Actuator are possible. 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.

### Functions as Switch Actuator:

The outputs are parameterized individually via ETS. 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. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization.

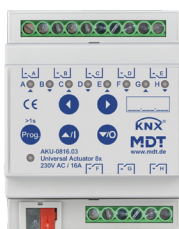
### Functions as Shutter Actuator:

The outputs are parameterized individually via ETS. The device provides extensive functions like status response, block functions, ventilation function (window opened/tilt) central function and positioning shutters, blinds and other hangings. Additionally the device provides up to 8 scenes per channel and heating control with PWM. If the mains voltage fails, all outputs are switched off. After bus voltage failure or recovery the position of the shutter is selected in dependence on the parameterization.

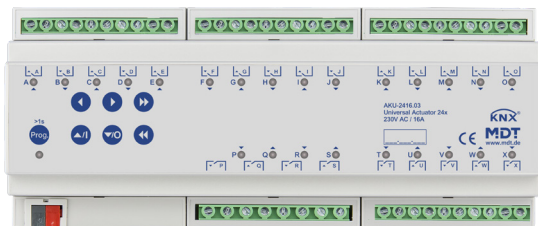
The MDT Universal Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

For project design and commissioning of the MDT Universal Actuator it is recommended to use the ETS or later. Please download the application software at [www.mdt.de/Downloads.html](http://www.mdt.de/Downloads.html)

AKU-0816.03



AKU-2416.03



- Production in Germany, certified according to ISO 9001
- **Can be used as Switch Actuator (max. 24-fold) or Shutter Actuator (max. 12-fold)**
- **Mixed applications of Switch- and Shutter Actuator possible**
- Heating control with PWM 0-100%
- Push Button and LED indicator for each channel
- **Automatic sun shading/slat adjustment with sun position calculation**
- **Practical ventilation function (window open/tilt)**
- 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
- Central switching functions and block functions
- Operation mode blind/shutter adjustable
- Travel-, pause-at-change-of-direction- and step time adjustable
- 1Bit automatic function and sun protection
- 8Bit positioning for shutter and blinds
- Adjustable behaviour in case of bus voltage failure or return
- 4mm<sup>2</sup> / 2x2,5mm<sup>2</sup> screw terminals. Separate supply phases
- Quick application download (long frame support for ETS5)
- 3 years warranty

<b>Technical Data</b>	AKU-0416.03 AKU-0616.03 AKU-0816.03 AKU-1616.03 AKU-2416.03	
<b>Number of Switching outputs</b>	4/6/8/16/24	
<b>Number of Shutter outputs</b>	2/3/4/8/12	
<b>Output switching ratings</b>		
Ohmic load	16A	
Capacitive load	100uF	
Voltage	230VAC	
<b>Maximum inrush current</b>	400A/150µs 200A/600µs	
<b>Maximum load</b>		
Shutter motor*	600W	
Incandescent lamps	2300W	
Halogen lamps 230V	2300W	
Halogen lamps, electronic transformer**	1300W	
Fluorescent lamps, not compensated	2000W	
Fluorescent lamps, parallel comp.	1200W	
Max. number of electronic transformers	15	
<b>Output life expectancy (mechanical)</b>	1.000.000	
<b>Max. total current of the actuator</b>	64A/64A/96A/128A/192A	
<b>Specification KNX interface</b>	TP-256 with long frame support for ETS5	
<b>Available application software</b>	ETS5	
<b>Permitted wire gauge</b>		
Screw terminal	1 x (0,5 - 4,0mm <sup>2</sup> ) 2 x (0,5 - 2,5mm <sup>2</sup> )	
KNX busconnection terminal	0,8mm Ø, solid core	
<b>Torque screw terminal</b>	0,5Nm	
<b>Power consumption KNX bus typ.</b>	< 0,15W	
<b>Operation temperature range</b>	0 to + 45°C	
<b>Enclosure</b>	IP 20	
<b>Dimensions MDRC (Space Units)</b>	4/4/4/8/12TE	

\* no three-phase asynchronous motor

**Exemplary circuit diagram AKU-0816.03**

