

## MDT Universal Actuator 8/16-fold, MDRC

Version		
AKU-0816.01	Universal Actuator 8-fold	4SU MDRC, 230VAC, 16A
AKU-1616.01	Universal Actuator 16-fold	4SU 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 monostable 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, central function and positioning shutters, blinds and other hangings. Additionally the device provides up to 8 scenes per channel. 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)

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- Production in Germany, certified according to ISO 9001
- **Can be used as Switch Actuator (max. 8-fold) or Shutter Actuator (max. 4-fold)**
- **Mixed applications from Switch- and Shutter Actuator possible**
- 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
- 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
- Four contacts share one supply phase
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKU-0816.01	AKU-1616.01
Number of Switching outputs	8	16
Number of Shutter outputs	4	8
Output switching ratings		
Ohmic load	16A	16A
Capacitive load	max. 21uF at 16A	max. 21uF at 16A
Voltage	230VAC	230VAC
Maximum inrush current	80A/150µs 40A/600µs	80A/150µs 40A/600µs
Maximum load		
Shutter motor*	600W	600W
Incandescent lamps	2300W	2300W
Halogen lamps 230V	2000W	2000W
Halogen lamps, electronic transformer**	800W	800W
Fluorescent lamps, not compensated	800W	800W
Fluorescent lamps, parallel comp.	180W	180W
Max. number of electronic transformers	3	3
Output life expectancy (mechanical)	1.000.000	1.000.000
Specification KNX interface	TP-256	TP-256
Available application software	ETS 3/4/5	ETS 3/4/5
Permitted wire gauge		
Screw terminal	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	
KNX busconnection terminal	0,8mm Ø, solid core	0,8mm Ø, solid core
Power supply	230VAC/50Hz	230VAC/50Hz
Power consumption KNX bus typ.	< 0,15W	< 0,15W
Power consumption mains 230V typ.**	< 0,5-2W	< 0,5-4W
Operation temperature range	0 to + 45°C	0 to + 45°C
Enclosure	IP 20	IP 20
Dimensions MDRC (Space Units)	4SU	8SU

\* no three-phase asynchronous \*\* Power consumption when operate as Shutter Actuator 0,5W. Power consumption when operate as Switch Actuator depends on relays position.

### Exemplary circuit diagram AKU-0816.01

