

MDT Universal Actuator 8/16-fold, MDRC

| Version | | |
|-------------|----------------------------|-----------------------|
| AKU-0816.02 | Universal Actuator 8-fold | 4SU MDRC, 230VAC, 16A |
| AKU-1616.02 | Universal Actuator 16-fold | 8SU 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.

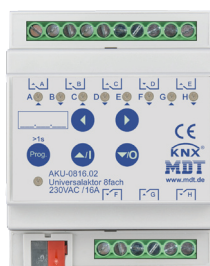
Functions as Shutter Actuator:

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

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- Production in Germany, certified according to ISO 9001
- **Comprehensive function extension**
- **Can be used as Switch Actuator (max. 8-fold) or Shutter Actuator (max. 4-fold)**
- **Mixed applications of Switch- and Shutter Actuator possible**
- **Heating control with PWM 0-100%**
- Push Button and LED indicator for each channel
- 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
- **Ventilation function (window opened/tilt geöffnet/gekippt)**
- Adjustable behaviour in case of bus voltage failure or return
- **Separate L-connections**
- Quick application download (long frame support for ETS5)
- 3 years warranty

| Technical Data | AKU-0816.02 | AKU-1616.02 |
|---|--|--|
| Number of Switching outputs | 8 | 16 |
| Number of Shutter outputs | 4 | 8 |
| Output switching ratings | | |
| Ohmic load | 16A | 16A |
| Capacitive load | 100uF | 100uF |
| Voltage | 230VAC | 230VAC |
| Maximum inrush current | 400A/150µs 200A/600µs | 400A/150µs 200A/600µs |
| Maximum load | | |
| Shutter motor* | 600W | 600W |
| Incandescent lamps | 2300W | 2300W |
| Halogen lamps 230V | 2300W | 2300W |
| Halogen lamps, electronic transformer** | 1300W | 1300W |
| Fluorescent lamps, not compensated | 2000W | 2000W |
| Fluorescent lamps, parallel comp. | 1200W | 1200W |
| Max. number of electronic transformers | 15 | 15 |
| Output life expectancy (mechanical) | 1.000.000 | 1.000.000 |
| Max. total current of the actuator | 64A | 116A |
| Specification KNX interface | TP-256 with long frame support for ETS5 | |
| Available application software | ETS 4/5 | ETS 4/5 |
| Permitted wire gauge | | |
| Screw terminal | 1 x (0,5 - 4,0mm ²) 2 x (0,5 - 2,5mm ²) | 1 x (0,5 - 4,0mm ²) 2 x (0,5 - 2,5mm ²) |
| KNX busconnection terminal | 0,8mm Ø, solid core | 0,8mm Ø, solid core |
| Torque screw terminal | 0,5Nm | 0,5Nm |
| Power consumption KNX bus typ. | < 0,15W | < 0,15W |
| 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 motor

Exemplary circuit diagram AKU-0816.02

