

## Datasheet KTRRUU257.456#55/V2

Articlenumber: UA220106

Room thermostat with clock, heating/cooling, flush-mounted, 24VAC/VDC, cover 55x55mm, pure white, glossy

Flush-mounted controller for time-dependent heating/cooling control of 2- and 4-pipe systems in hotels, residential and commercial premises. Can be adapted to almost all surface switch programs thanks to different variants. Up to 5 valve actuators (normally open or closed) can be controlled per output. In 2-pipe operation, the operating mode can be switched via an external contact (change-over), temperature sensor or in the menu. The clock can be used as a master for other controllers for ECO switchover. The energy-saving function (ECO) or frost protection (STANDBY) can be activated via an external contact. Alternatively, the controller inputs can be configured for an external temperature sensor (weighting between internal and external sensor can be set) or a dew point sensor (TPS). A fan (EC fan) can be speed-controlled via a 0 ... 10 V interface.



|                             |                       |
|-----------------------------|-----------------------|
| Actual temperature display  | Yes                   |
| Adaptive heating time start | Yes                   |
| Ambient temperature         | 0 ... 40 °C           |
| Bearing temperature         | -20 ... 70 °C         |
| Clock type                  | Day/week              |
| Clock version               | Digital               |
| Colour                      | Pure white            |
| Control behaviour           | 2-point or PI-PWM     |
| Control range               | 5 ... 40 °C           |
| Cooling control function    | Yes                   |
| Degree of contamination     | 2                     |
| Design                      | Berlin UP             |
| Dimensions (W x H x D)      | 71 mm x 71 mm x 46 mm |
| Display                     | Yes                   |

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Display type                       | Illuminated, graphic display             |
| ECO function (reduction)           | Yes                                      |
| ECO input (reduction)              | 24 VAC, 50 Hz / 24 VDC                   |
| ECO output (reduction)             | 24 VAC, 50 Hz / 24 VDC                   |
| Electric connection                | Screwed plug-in terminals                |
| Energy efficiency class            | I or IV                                  |
| External setting                   | Yes                                      |
| Heating control function           | Yes                                      |
| Housing material                   | Plastic ABS, PC, PMMA                    |
| Max. air humidity (non-condensing) | 95 % r.H.                                |
| Max. power consumption             | Approx. 1 W (2,2 VA)                     |
| Max. switching current             | 3 (0,5) A                                |
| Max. switching voltage             | 24 VAC, 50 Hz / 24 VDC                   |
| Medium                             | Air                                      |
| Min. switching voltage             | 24 VAC, 50 Hz / 24 VDC                   |
| Montage/Befestigung                | Flush mounting (deep socket recommended) |
| Neutral zone                       | Einstellbar                              |
| Number of control ranges           | 1                                        |
| Number of outputs                  | 3                                        |
| Number of outputs, cooling         | 1                                        |
| Number of outputs, heating         | 1                                        |
| Number of switching programs       | 7                                        |
| Operating voltage                  | 24 VAC, 50 Hz / 24 VDC                   |
| Operation                          | Touch-sensitive buttons                  |
| Output signal                      | Switching/continuous, 0 ... 10 V         |
| Party function                     | Yes                                      |
| Potential free switching contact   | No                                       |
| Power reserve                      | 3 Days                                   |
| Protection class                   | III                                      |
| RAL colour number (similar)        | 9010                                     |
| Rated impulse voltage              | 500 V                                    |
| Safety and EMC                     | In accordance with DIN EN 60730          |

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Schalter Heizen/Kühlen                | No                                  |
| Sensor element                        | NTC internal, optional NTC external |
| Sensor external                       | No                                  |
| Shortest switching time               | 15 min                              |
| Surface finish                        | Gloss                               |
| Switching contact                     | 2 normally open contacts            |
| Switching difference, can be adjusted | No                                  |
| Switching differential                | Heating/cooling: 1 ... 2 K          |
| Switching element                     | Relay                               |
| Switching power                       | 72 W                                |
| Temperature controller version        | Climate controller                  |
| Type of wiring                        | Other                               |
| Weather-dependent control             | No                                  |
| With receiver                         | No                                  |

