

Datasheet RTBSB-001.202

Articlenumber: MA011700

Room thermostat, surface-mounted, 5...30...°C, 24V AC, NC contact, ECO function

Electro-mechanical room thermostat in surface-mounted housing for controlling and monitoring temperatures in offices, residential properties and hotels. Suitable for hot water heating systems. Thermal feedback is used to obtain a very accurate switching difference. The setting range can be adjusted using the range reducer located under the adjustment knob. Connecting the ECO terminal with 24 V AC (e.g. using clock controller or time switch clock) leads to an approx. 4K lower adjusted temperature.



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| Actual temperature display | No |
| Ambient temperature, lower value | 0 °C |
| Ambient temperature, upper value | 30 °C |
| Assembly | Complete device |
| Bearing temperature, lower value | -20 °C |
| Bearing temperature, upper value | 70 °C |
| Colour | Pure white |
| Connection cross-section | 0,12 mm ² bis 2,5 mm ² |
| Control behaviour | 2-point |
| Control range, lower value | 5 °C |
| Control range, upper value | 30 °C |
| Cooling control function | No |
| Depth | 25,5 mm |
| Design | Berlin 2000 |
| Display | No |
| ECO function (reduction) | Yes |
| ECO input (reduction) | 24 V AC, 50 Hz |

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| ECO temperature reduction | Approx. 4 K |
| Electric connection | Screw terminals |
| Electronic control | No |
| Energy efficiency class | I |
| External setting | Yes |
| Heating / cooling switch | No |
| Heating control function | Yes |
| Heating display | No |
| Height | 83,4 mm |
| Housing material | Plastic ABS |
| Internal setting | No |
| Maximum air humidity (non-condensing) | 95 % r.H |
| Maximum power consumption | < 0.5W |
| Maximum switching current | 1 (1) A |
| Maximum switching voltage | 24 V AC, 50 Hz |
| Mechanical range reduction | Yes |
| Medium | Air, not aggressive |
| Minimum switching voltage | 24 V AC / 50 Hz |
| Mounting / attachment | Surface mounting |
| Number of control ranges | 1 |
| Number of outputs | 1 |
| Number of outputs, heating | 1 |
| On / Off switch | No |
| Operating voltage | 24 V AC / 50 Hz |
| Operation | Rotary knob |
| Output signal | Switching (24 V AC, 50 Hz) |
| Potential free switching contact | No |
| Protection class | III |
| RAL colour number (similar) | 9010 |
| Safety and EMC | In accordance with DIN EN 60730 |
| Scale | Degree Celsius |

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| Sensor element | Bimetal |
| Sensor external | No |
| Surface properties | Matt |
| Switching contact | NC contact |
| Switching difference | Approx. 0.5 K (delta T max. 4 K/h) |
| Switching difference, can be adjusted | No |
| Switching element | Bimetal contact |
| Switching power | 24 W |
| Temperature controller version | Room thermostat |
| Test mark approval | CE |
| Thermal feedback | Yes |
| Type of protection | IP30 |
| Width | 78,3 mm |
| With explosion protection | No |

