

**MDT Temperature Controller 6-fold, MDRC**  
**MDT Temperature Controller/Sensor 6-fold, surface mounted**  
**MDT Temperature Controller/Sensor 2-fold, flush mounted**

| Version                   |                                      |  |
|---------------------------|--------------------------------------|--|
| SCN-RT6REG.01             | Temperature Controller 6-fold        | 2SU MDRC   |
| SCN-RT6AP.01              | Controller/Sensor 6-fold             | Surface mounted, for PT1000 sensors up to 12m cable length |
| SCN-RT2UP.01              | Controller/Sensor 2-fold             | flush mounted, for PT1000 sensors up to 12m cable length   |
| SCN-RT4UP.01              | Controller/Sensor 4-fold             | flush mounted, for PT1000 sensors up to 12m cable length   |
| Accessories SCN-RT6AP.001 |                                      |  |
| SCN-PTST1.01              | PT 1000 Sensor Standard              | Dimensions 4mm x 30mm, 1m cable                            |
| SCN-PTST3.01              | PT 1000 Sensor Standard              | Dimensions 6mm x 50mm, 3m cable                            |
| SCN-PTAN3.01              | PT 1000 Sensor strap on installation | Dimensions 8mm x 40mm, 3m cable                            |
| SCN-PTDE0.01              | PT 1000 Sensor ceiling installation  | Cut out diameter: 23mm, Depth: 28mm                        |

The MDT Temperature Controller is used for all purpose temperature control applications. The temperature is received as an KNX object or directly from the connected PT1000 temperature sensors (Only SCN-RT6AP.01, SCN-RT2UP.01 or SCN-RT4UP.01). Depending on the adjusted parameters of the Temperature controller the actuating value is sent as 1Bit or 1Byte variable to the bus.

The characteristic of the MDT Temperature Controller (Two-position, PI and PWM control) can be set in the ETS. The thermostat stores the minimum and maximum temperature and releases an alarm telegram if the temperature differs from the programmed limit values.

The temperature of the frost protection is parameterizable. The desired value can be given by MDT VisuControl touchpanel or the MDT pushbuttons.

The MDT Temperature Controller Actuator REG 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. The Temperature Controller Actuator AP is a surface mounted device, the maximum length of the PT1000 temperature sensors should not exceed 12m.

Both MDT Temperature Controllers are for fixed installations in dry rooms. For project design and commissioning of the MDT Temperature Controllers 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)

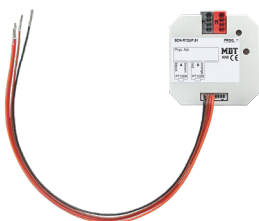
SCN-RT6REG.01



SCN-RT6AP.01



SCN-RT2UP.01



SCN-PTST3.01



- Production in Germany, certified according to ISO 9001
- Selectable temperature controller (PI, Two-position, PWM)
- Limit values min/max
- Frost-/heat protection alarm,
- Min/max memory
- Cyclical sending of contact state programmable
- Day-/night-/frost-/heat protection operation
- Cooling function
- Status feedback by HVAC and RHCC status objects
- Operation mode can be set via Bit/Byte objects
- Setpoint value via visualisation, e.g. MDT VisuControl
- Integrated bus coupling unit
- 3 years warranty

| Technical Data                         | SCN-RT6REG.01       | SCN-RT6AP.01          | SCN-RT2UP.01          | SCN-RT4UP.01          |
|--|---------------------|-----------------------|-----------------------|-----------------------|
| Number of channels                     | 6                   | 6                     | 2                     | 4                     |
| Temperature sensors                    | --                  | Connection for PT1000 | Connection for PT1000 | Connection for PT1000 |
| Max. cable length temperature sensors* | --                  | 12m                   | 12m                   | 12m                   |
| Specification KNX Interface            | TP-256              | TP-256                | TP-256                | TP-256                |
| Available application software         | ETS 3/4/5           | ETS 3/4/5             | ETS 3/4/5             | ETS 3/4/5             |
| Permitted wire gauge                   |                     |                       |                       |                       |
| KNX busconnection terminal             | 0,8mm Ø, solid core | 0,8mm Ø, solid core   | 0,8mm Ø, solid core   | 0,8mm Ø, solid core   |
| Power supply**                         | KNX bus             | KNX bus               | KNX bus               | KNX bus               |
| Power consumption KNX bus typ.         | < 0,3W              | < 0,3W                | < 0,3W                | < 0,3W                |
| Operation temperature range            | --                  | -20 bis +100°C        | -20 bis +100°C        | -20 bis +100°C        |
| Enclosure                              | IP 20               | IP 20                 | IP 20                 | IP 20                 |
| Dimensions MDRC (Space Units)          | 2SU                 | --                    | --                    | --                    |
| Dimensions (W x H x D)                 | --                  | 115mm x 64mm x 40mm   | 41mm x 41mm x 12mm    | 41mm x 41mm x 12mm    |

\* To avoid radiation, do not install the sensor cables parallel to 230VAC main cables.

\*\* If any 230V cables are in the vicinity, make sure to maintain the distances to them specified as in the applicable standards and regulations. Never install the device in a flush mounted box together with 230V cables.

## Exemplary circuit diagramm SCN-RT6REG.01

