MDT Room Temperature Controller Smart 55, White glossy finish
With colour display, temperature/humidy sensor and 4 inputs

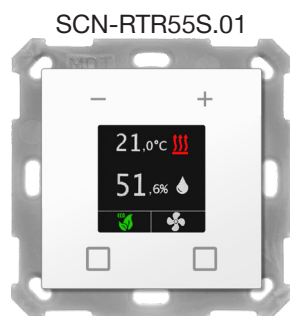| Version		
SCN-RTR55S.01	Room Temperature Controller Smart 55	To fit 55mm systems/ranges, White glossy finish

The MDT Room Temperature Controller Smart 55 with integrated temperature and humidity sensor is used for indoor room temperature regulation. Switch Acuators/Heating Actuators with electrothermic valves or motorized KNX actuators can be controlled by the Room Temperature Controller.

Set/actual temperature, relative/absolute humidity. outside temperature and time are displayed on the active color display. Additionally the Room Temperature Controller Smart 55 has 4 binary inputs to connect potential free contacts. The inputs can be used for direct connection of window contacts, buttons/switches for lighting control or blind control. The length of connection cables is 22cm

Fits 55mm systems/ranges:

- GIRA Standard 55, E2,E22, Event, Esprit
- BERKER S1, B3, B7
- JUNG A 500, A CREATION, AS 500, A550, A FLOW
- MERTEN 1M, M-Smart, M-Plan, M-Pure

The MDT Room Temperature Controller Smart 55 is a flush mounted device for fixed installations in dry rooms.
For project design and commissioning of the Room Temperature Controller Smart 55 it is recommended to use the ETS.
Please download the application software at www.mdt.de/downloads.html
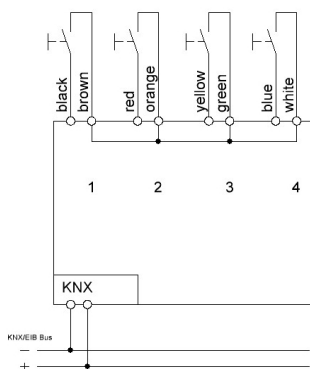
SCN-RTR55S.01

- Production in Germany, certified according to ISO 9001
- Fits 55mm systems/ranges
- **Active colour display to indicate function and status**
- **Background colour w/b and display brightness adjustable**
- **Display of set and actual temperature**
- **For indoor temperature controlling**
  Range -10 to +50°C
- **Selectable temperature controller (PI, Two-position, PWM)**
- Simple setpoint adjustment via separate +/- buttons
- 1Bit +/-, 1Byte oder 2Byte absolute object for setpoint adjustment
- Setpoint values are stored at bus voltage failure
- Limit values min/max, frost protection alarm, min/max memory
- Operation mode can be set via Bit/Byte objects
- **Temperature and humidy sensor with dew point calculation**
- Message when leaving the comfort zone
- **4 binary inputs to connect potential free contacs**
  (push-buttons or window/auxiliary contacts)
- Ventilation control by hand or automatic operation
- 14Byte object for plain text diagnostic
- Installation in a installation box with included support ring
  Recommended installation height: 1,6m
  Length of connection cables: 22cm
- Integrated bus coupling unit, 3 years warranty

Technical Data	SCN-RTR55S.01		
Measurement range temperature sensor	-10 to + 50°C		
Measurement range humidy sensor	0 - 95%*		
Number of inputs	4 (for potential free contacts)		
Internal contact voltage	3,3VDC** internal		
Permitted input cable length	10m		
Recommended installation height	1,60m		
Specification KNX interface	TP-256		
Available application software	ETS 5		
Permitted wire gauge			
KNX busconnection terminal	0,8mm Ø, solid core		
Power supply	KNX bus		
Power consumption KNX bus typ.	<0,3W		
Permitted input cable length	10m		
Operation temperature range	0 to + 45°C		
Ambient humidity (permanent)	20 - 80%		
Ambient humidity (short-term)	0 - 95%		
Enclosure	IP 20		
Dimensions (W x H)	55mm x 55mm		
Installation depth in installaton box	12mm		

* Avoid condensation
** There is no galvanic separation between contact voltage and KNX bus voltage.

Examplary circuit diagram SCN-RTR55S.01

Compatible to 55mm programs

Manufacturer	Series
Berker	B.7 Glas polarweiß
Berker	B.3 Alu polarweiß
Berker	S.1 polarweiß
Berker	B.1 polarweiß matt
Berker	B.7 Glas Alu
Berker	S.1 polarweiß matt
Gira	Standard 55 reinweiß seidenmatt
Gira	E2 reinweiß seidenmatt
Gira	E22 reinweiß glänzend
Gira	Esprit Glas mint
Gira	Esprit Glas weiß
Gira	Event Alu
Gira	Event reinweiß matt
Merten	M-Smart polarweiß brillant
Merten	M-Plan polarweiß edelmatt
Merten	M-Arc polarweiß edelmatt
Merten	M-Pure
Merten	M-Plan Echtglas brillantweiß
Merten	M-Smart polarweiß
Jung	A 500
Jung	A CREATION
Jung	AS 500
Jung	A 550
Jung	A FLOW