

ABB i-bus® KNX Room Solutions









- The Room Master RM/S 1.1 and RM/S 2.1 offers smart home and intelligent building control for hotel rooms and apartments
- Modern buildings need intelligent building control systems in order to operate safely and efficiently.

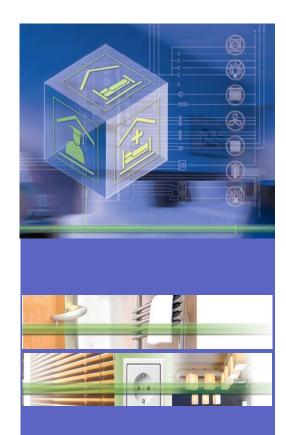
The full potential of many buildings worldwide is being achieved only through use of such a networked electrical installation.





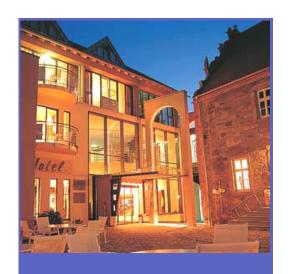
- Hotels, hospitals, student residences, assisted living facilities, apartments and many more – the Room Master opens up new possibilities for properties in the residential and hotel sectors.
- The communication of the devices via the KNX bus also enables central control functions and allows emergency signals to be sent from the rooms to a central control station.





- The Room Master was developed for all rooms of this type. It covers all the electrical installation requirements for this application and offers the following functions in a compact unit:
 - Light switching
 - Heating/air-conditioning control
 - Shading (via blinds or curtains)
 - Switching of socket outlets and consumers





Connection to a hotel management system enables the rooms to be managed and prepared efficiently.
 For instance, when a guest checks out, the room can automatically be set to stand-by operation.



In Hotels

The Room Master Premium offers all the functions required in a modern hotel room. Once it is in operation, it provides a whole range of advantages over a conventional installation:

- Convenient and simple operation of the room functions by guests
- Temperature control depending on the time of year, outdoor temperature and occupancy
- Transmission of messages to the reception (e.g. clean room, emergency signal)
- Fast localization of malfunctions in rooms and simplified room maintenance



In Hotels

The benefits of the Room Master are evident not only in operation, but also in the planning stage:

- Can be used anywhere in the world
- Compact design: can be installed in a simple sub-circuit distribution board together with circuit breakers
- One standard solution for many projects



In hospitals

When used in hospitals and facilities with a similar purpose, the Room Master boasts an array of functions which support the efficient operation of a modern building:

- Simple operation of the room functions by the patients
- Automatic control of the room environment
- Day/night switching
- Display of visits
- Remote control of the room and display of the room status at the nurses' station
- Fast localization of malfunctions in rooms and simplified room maintenance



In Assisted Living

The Room Master provides comfort and security in residential homes and supports senior citizens in their daily life:

- Simple operation of the room functions
- Automatic control of the room environment
- Automatic transmission of messages (e.g. emergency calls) to the central control station
- Fast localization of malfunctions in rooms
- Display of the room status at the central control station
- Day/night switching



In Apartments

The Room Master provides greater attractiveness and improved quality of life for apartment habitants, both of which are deciding factors for sale or rental:

- Automatic switching of different lighting in the room
- Automatic control of heating and air-conditioning
- Shading via blinds or curtains
- Convenient and simple operation of room functions



Functions in the Room

- Mains Supply
 Socket outlets, any electrical load
- Lighting Control
 Master switch next to the bed
- HVAC Radiators, Fan-Coil units
- Shading Shutter, blinds and curtains
- Energy
 Switch off of loads
- Comfort Hotel room: "Do not disturb"
- Security
 Emergency call in the bathroom



Product overview





BasicRM/S 1.1(8 MW)

Premium RM/S 2.1 (12 MW)





ABB i-bus® KNX

Room Solution Room Master, Premium







Room Master Premium RM/S 2.1

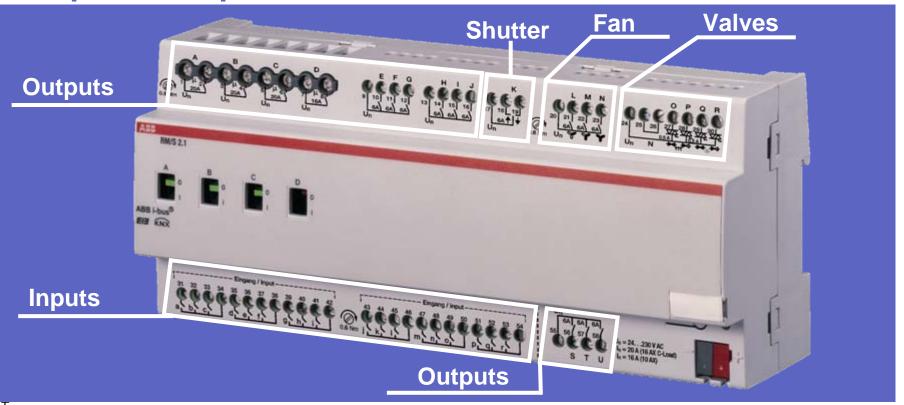


- MDRC (12 MW)
- Current consumption maximally 24 mA



RM/S 2.1

Inputs / Outputs





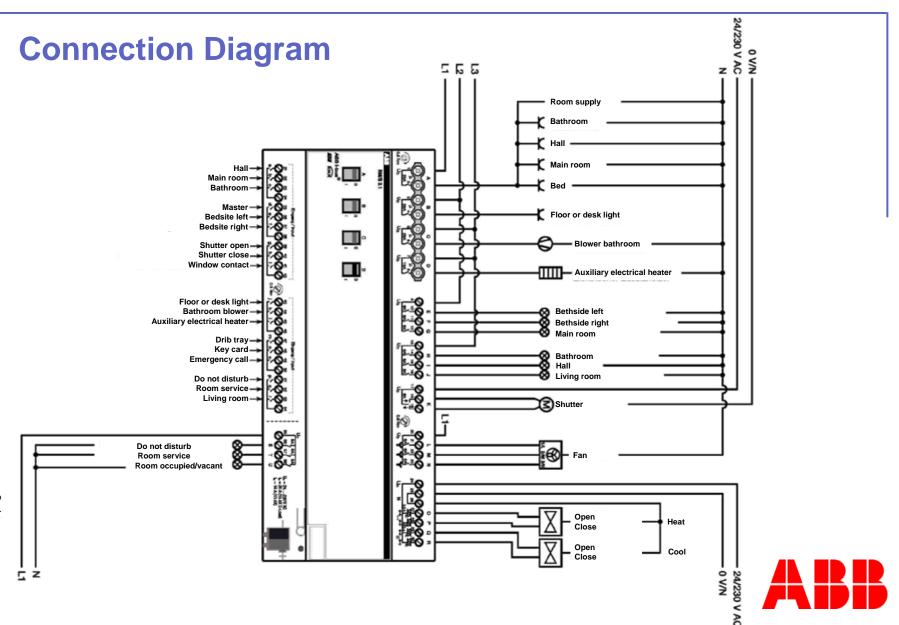
Inputs / Outputs overview

Inputs	Numbers
Binary via contact scanning	18

Outputs	Numbers
Relay 20 A (16 A C-Load)	3
Relay 16 A (10 AX)	1
Relay 6 A	12
Electronic outputs 0.5 A	4
Change over contact 6 A (shutter)	1



RM/S 2.1

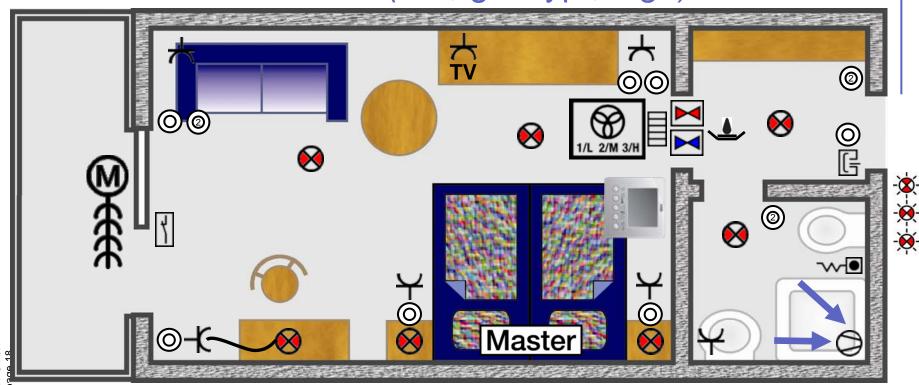


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Info: Floor plan

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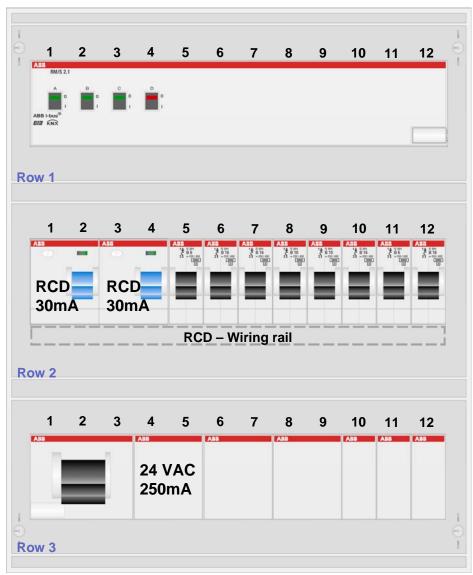




Room Master Premium

RM/S 2.1

Overview distribution board



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Row 2:

1	I - 4	R	CI	

5 (6A) Main Supply (Bell Transformer

6 ((16A)	Socket Outlet	Circuit
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7 (16A) S	Socket Outlet	Circuit
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8 (10A)	Electrical. Heater	/ Auxiliary	Contact
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9 (10A) Lighting Circuit + Shutte

10 (16A)	Room Supply
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11 (6A)	Fan Coil	(HVAC)
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12 (16A)	Blower Bathroom
12 110/71	DIOMEL DALLIOUTH

Row 3:

4	2	Main Cuitale 1	CΛ
Ή	- 3	Main Switch 1	hΑ

	4 - 5	Bell Transform.	(TS24/8-12-24)
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Room Master Premium

Summary

- Room Master Premium, RM/S 2.1, 12 MW, MDRC
- 18 inputs, 20 outputs
- RM/S 2.1 supply via bus
- Current consumption maximally 24 mA
- Room solution, one device for all functions
- Independent of design
- Locked shutter output
- VDI 6015 BUS-systems in building installation.
 Application examples from march 2003





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Room Solution Room Master, Basic







Room Master Basic RM/S 1.1



- MDRC (8 TE)
- Current consumption maximally 12 mA



Inputs / Outputs





Inputs / Outputs Overview

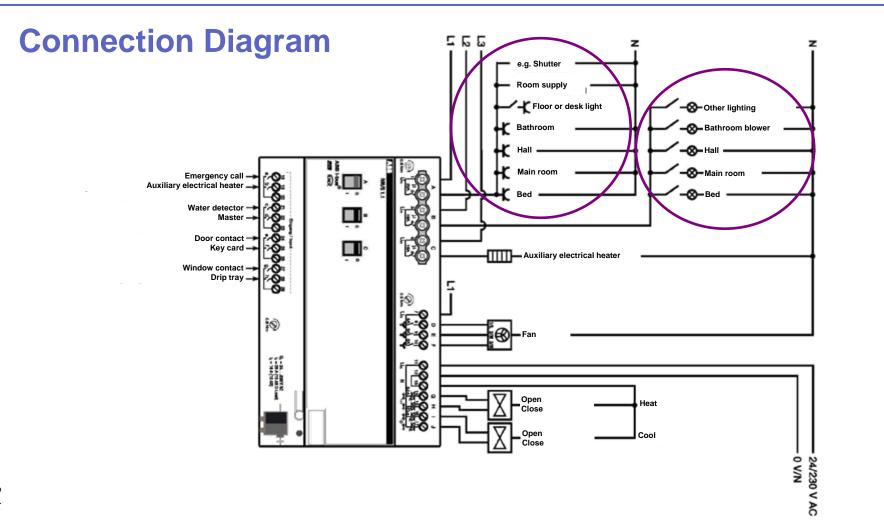
Inputs	Numbers
Binary via contact scanning	8

Outputs	Numbers
Relay 20 A (16 A C-Load)	1
Relay 16 A (10 AX)	2
Relay 6 A	3
Electronic outputs 0.5 A	4



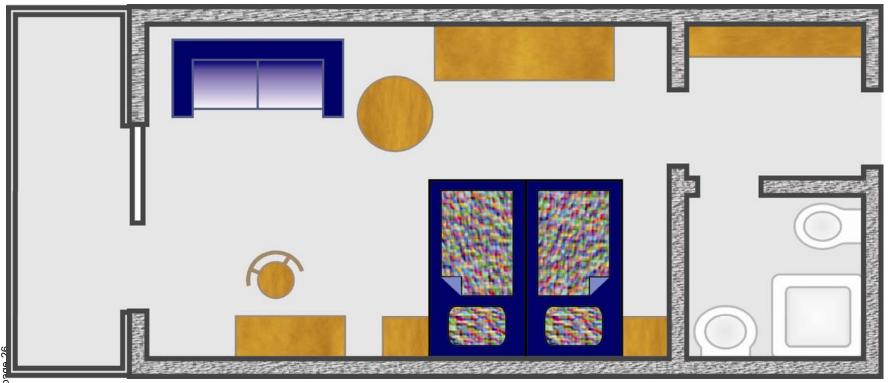
Room Master Basic

RM/S 1.1



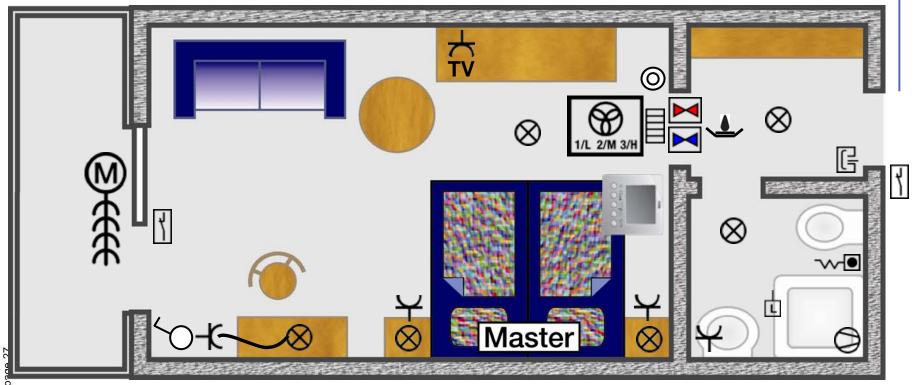


Info: Floor plan





Info: Floor plan - completely



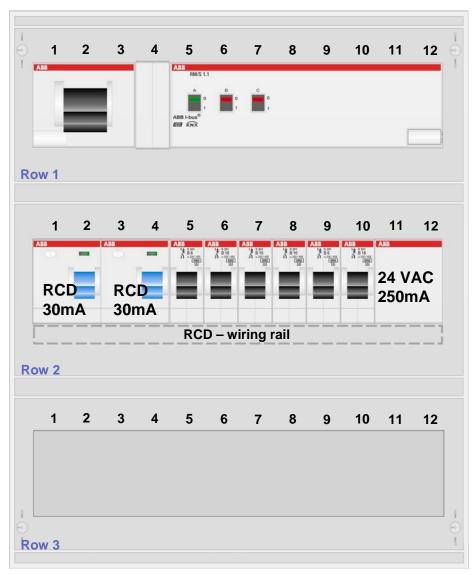




Room Master Basic

RM/S 1.1

Overview distribution board



Row 1:

1 - 3	Main Switch 16A

4 Free

5 - 12 Room Master

Row 2:

1-4 RCD

5 (6A) Main Supply (Bell Transformer)

6 (16A) Socket Outlet Circuit

7 (10A) Lighting Circuit + Shutter

8 (10A) Electrical Heater / Auxiliary Contact

9 (6A) Fan Coil (HVAC)

10 (16A) Socket Outlet Circuit

11 - 12 Bell Transform. (TS24/8-12-24)

Row 3: (Option)

1-12 Free





Summary

- Room Master, Basic, RM/S 1.1, 8 MW, MDRC
- 8 inputs, 10 outputs
- RM/S 1.1 supply via bus
- Current consumption maximally 12 mA
- Room solution, one device for all functions
- Independent of design





ABB i-bus® KNX

Room Solution Overview







Inputs / Outputs overview

Inputs	RM/S 1.1	RM/S 2.1
Binary via contact scanning	8	18

Outputs	RM/S 1.1	RM/S 2.1
Relay 20 A (16 A C-Load)	1	3
Relay 16 A (10 AX)	2	1
Relay 6 A	3	12
Electronic outputs 0.5 A	4	4
Change over contact 6 A (shutter)	-	1





Power and productivity for a better world[™]