SIEMENS

Hotel Solution™
HMI
User's guide

CM2B6307en
12/15/2008

For internal use only

Building Technologies

Siemens Switzerland Ltd
Building Technologies Group
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41-724 24 24
Fax +41 41-724 35 22
www.siemens.com/sbt

Content

1 About this document

1.1 Revision history

Version	Date	Changes	Section	Pages
1.1	03.11.2008	Added RoomOverview Corrected figure	3.1, 3.2, 3.4 3.5	6, 7, 9 10
1.0	30.09.2008	First draft	All	All

1.2 Reference documents

Ref.	Document title	Document type	Document number
[1]	Hotel Solution – System software	Installation and configuration instructions	CM110600
[2]	Hotel Solution – User interface	User's guide	CM110601

1.3 Before you start

Copyright

Quality control

These documents were prepared with great care.

- The contents of all documents are checked at regular intervals.
- All necessary corrections are included in subsequent versions.
- Documents are automatically amended as a consequence of modifications and corrections to the products described.

Please make sure that you are aware of the latest document revision date.
If you find lack of clarity while using this document, or if you have any criticisms or suggestions, please contact the product manager in your nearest branch office or the support team at Headquarters.

Support address

Siemens Switzerland Ltd.
Building Technologies Group
International Headquarters
Field Support 5500
Gubelstrasse 22
6301 Zug, Switzerland
Phone +41 41 724 5500
Fax +41 41 724 5501
Email: fieldsupport-zug.ch.sbt@siemens.com

Document use/ request to the reader

Before using our products, it is important that you read the documents supplied with or ordered at the same time as the products (equipment, applications, tools etc.) carefully and in full.
Additional information on the products and applications (e.g. system descriptions, etc.) is available in:

- Internet at www.siemens.com/sbt
- Intranet at https://intranet.sbt.siemens.com/dbcom/en/db_porta/client.asp.

We assume that persons using our products and documents are authorized and properly trained and have the requisite technical knowledge to use our products as intended.
If lack of clarity or other problems associated with the use of the documents persist, do not hesitate to contact the Product Manager at your nearest branch office, or the support team.
Email: fieldsupport-zug.ch.sbt@siemens.com

Siemens assumes no liability to the extent allowed under the law for any losses resulting from a failure to comply with the aforementioned points or for the improper compliance of the same.

1.4 Target audience

The HMI user's guide is targeted at Siemens employees. A basic knowledge of the Hotel Solution System is required to properly understand the user's guide. We recommend that you attend training on the Hotel Solution system from Siemens.

2 HMI for HRC3.1 and HRC3.2

The HMI user's guide describes the displays and operating pages for the HMI manual operator unit for use with the Hotel Solution room controllers HRC3.1 and HRC3.2.

Manual operator unit ACX84.910/AL

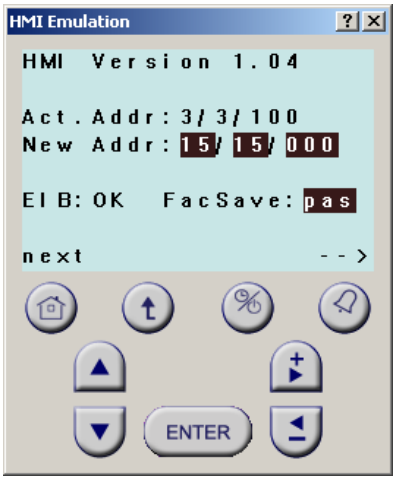
3 Display and operating pages

The sections below describe the display and operating pages of the HMI for the HRC3.1 and HRC3.2 room controllers. The following display and operating pages are available:

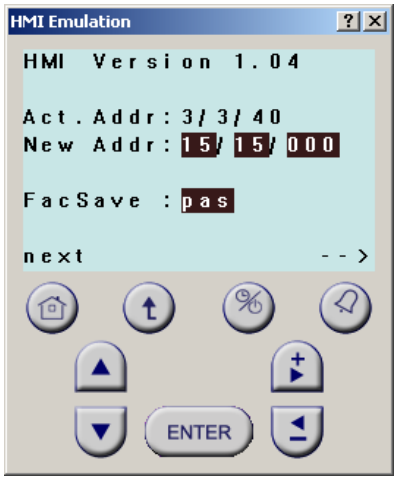
- First page.
- Diagnostics.
- Information.
- Room Overview.
- Digital inputs active?
- Switch outputs.

3.1 First page.

The first page of the HMI provides the address settings for the room controller.



HRC3.1



HRC3.2

Parameter	Description	Can this field be edited?
HMI version	HMI template version number.	No.
Act.Addr	Current address for the controller.	No.
New Addr	Setting for the new controller address.	Yes.
EIB	State of the KNX bus controller on the controller. This parameter is not available for HRC3.2. OK = Bus connection is OK. Err = Bus connection error. Possible causes: – KNX bus is not connected. – No bus power supply.	No.
FacSave	Conducts a backup of the factory settings. Should be executed after a change of address. The controller restarts when changing over from passive (pas) to active (act.). On the HRC3.1, becomes visible by turning off the display.	Yes.
next	Queries the diagnostics page.	Yes.

3.2 Diagnostics.

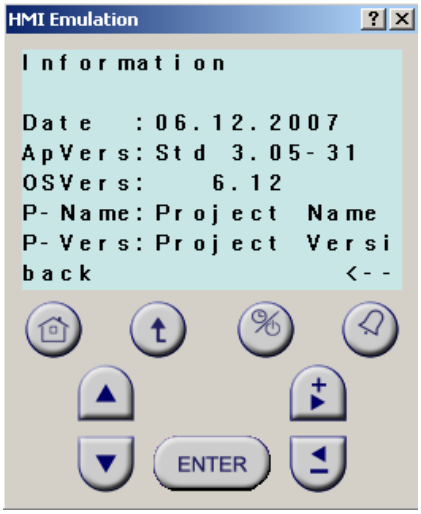
Diagnostics is used to troubleshoot the room controller.

Simulate	Simulation = Simulation mode is enabled. The controller inputs and outputs are separated from the application and the controller goes into simulation mode. It is now possible to switch outputs in a defined manner via additional parameters. This allows for trouble shooting the room (e.g. for wiring mistakes). The active inputs can be read in this mode. Normal mode = The controller is in normal operation. CAUTION: Simulation mode remains active after a power outage (PowerFail). The editable inputs and outputs remain in their old state after a power outage.	Yes.

Parameters	**Description**	**Can this field be edited?**
Information	Queries the info page.	No.
Room Overview	Queries room overview.	No.
Dig. Inputs Act.	Queries the Digital Inputs Active page.	No.
Switch outputs	Queries Switch Outputs page.	No.
back	Back to first page.	No.

3.3 Information

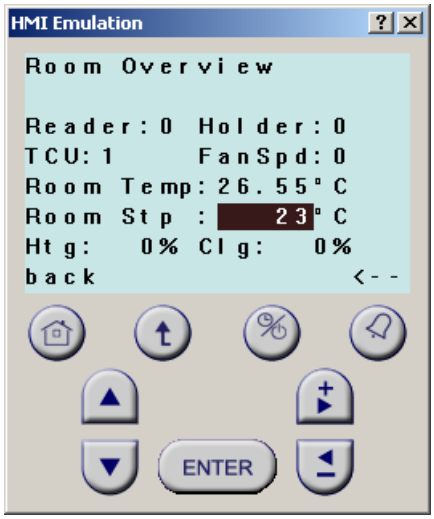
The page provides information on the application on the controller.



Parameters	Description	Can this field be edited?
Date	Creation date.	No.
ApVers	Displays application version.	No.
OSVers	Displays OS version.	No.
P-Name	Displays project name.	No.
P-Version	Displays project version.	No.
back	Back to Diagnostics page.	No.

3.4 Room Overview.

This HMI page provides the basic data on the room controller.

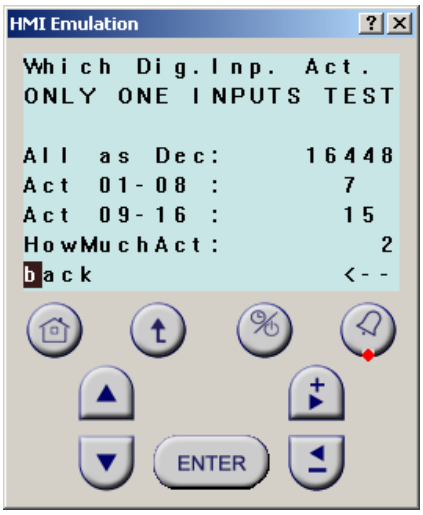


Parameters	Description	Can this field be edited?
Reader	This parameter displays the active, correctly configured and parameterized card readers on the controller. 1 = Card reader active and without error. 0 = No card reader connected/active or the wrong address is set on the card reader.	No.
Holder	This parameter displays the active, correctly configured and parameterized card holder on the controller. 1 = Card holder active and without error. 0 = No card holder connected/active or the wrong address is set on the card reader.	No.
TCU	This parameter displays the active, correctly configured and parameterized room units on the controller. 1 = Room units are active and without error. 0 = No room unit connected/active or the wrong address is set on the card reader.	Nein
FanSpd	Display of the current fan speed.	No.
RoomTemp	Present room temperature display.	No.
Room Stp	The present setpoint for the room can be entered here. It is overwritten, however, when the KNX bus is re-connected.	Yes.
Htg	Display of current position of the heating valve.	No.
Clg	Display of current position of the cooling valve.	No.
back	Back to Diagnostics page.	No.

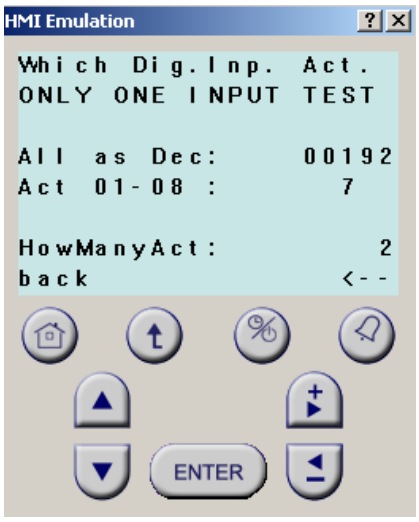
3.5 Digital inputs active

Conducts wiring test at the input.

Only one input is tested for this overview. The figure below for the HRC3.1 controller displays two active inputs: DI6 und DI15. The parameter HowManyAct indicates how many inputs are currently active.



HRC3.1



HRC3.2

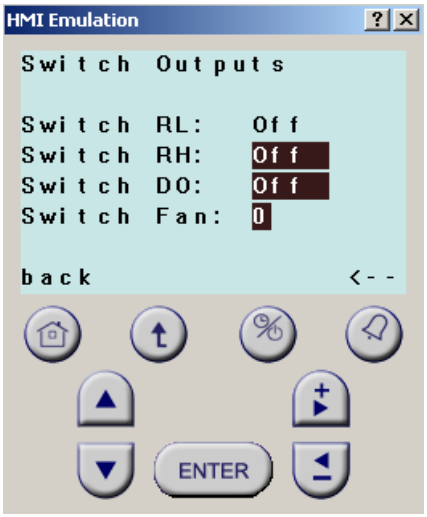
Parameter	Description	Can this field be edited?
All as Dec	Displays active inputs as a decimal number. A recalculation is possible here to determine which inputs are currently active. The display is only there to determine changes. The active outputs can be read in parameters Act 01-09 (or Act 01-08 for HRC3.2) and Act 10-16. Example: Resolution in 16 bits. Value = 16448 Bit0-Bit5 = off Bit6 = on Bit7-Bit13 = off Bit14 = on Bit15 = off ➔ two inputs active (here window and door contracts are open).	No.
Act 01 – 09 (for the HRC3.1) Act 01 – 08 (for the HRC3.2)	Display of an active digital input (DI) in a range of DI 01 – DI 09. Caution: Only the last active input is displayed when two inputs are active in the range DI 01 – DI 09. Which is why only one input is active for testing purposes. This can be viewed in the parameter HowManyAct. On the HRC3.2, the parameters Act 01 – 08 mean that only 8 digital inputs exist.	No.
Act 10 – 16	Display of an active digital input (DI) in a range of DI 10 – DI 16.	No.

Parameter	Description	Can this field be edited?
(HRC3.1 only)	Caution: Only the last active input is displayed when two inputs are active in the range DI 01 – DI 09. Which is why only one input is active for testing purposes. This can be viewed in the parameter HowManyAct. Note: This parameter exists for the HRC3.1 only.	
HowManyAct	Displays the number of active inputs. Only one input may be active in each range (Act 01 – 09 / Act 10 – 16) for a correct display of the active inputs. Example 1 (see figure for HRC3.1): Act 01 – 09 = 6 Act 10 – 16 = 15 HowManyAct = 2 ➔ Only one input each is active for digital inputs in the range DI01 – DI09 and DI10 – DI16. Since a total of only 2 active inputs are displayed under HowManyAct, the display is complete and correct: DI 6 and DI 15 are active. Example 2: Act 01 – 09 = off Act 10 – 16 = 15 HowManyAct = 2 ➔ Two inputs are active for the digital inputs in the range DI 10 – DI 16. A concrete comment on active inputs is not fully possible. Example 3: Act 01 – 09 = 6 Act 10 – 16 = 15 HowManyAct = 3 ➔ Two inputs are active for the digital inputs in the range DI 10 – DI 16. A concrete comment is therefore not possible.	No.
Back	Back to Diagnostics page.	No.

3.6 Switch Outputs

Conducts wiring test at the output. Each output can be switched individually.

The parameter Simulate (Diagnostics page) must be set to Simulation to use this page.
The outputs are reset when an output is changed using the HMI and simulation is set to normal operation.



Parameters	Description	Can this field be edited?
Switch RL	HRC3.1: Switch on relay RL1-RL8. HRC3.2: Switch on relay RL1-RL5.	Yes.
Switch RH	HRC3.1: Switch on relay RH4-RH9. HRC3.2: Switch on relay RH4-RH7.	Yes.
Switch DO	HRC3.1: Switch on relay DO1-DO8. HRC3.2: Switch on Triacs Tr1-Tr4.	Yes.
Switch Fan	Switch on fan speed 1-3.	Yes.
back	Back to Diagnostics page.	No.

Siemens Switzerland Ltd
Building Technologies Group
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Phone +41 41-724 24 24
Fax +41 41-724 35 22
www.siemens.com/sbt