Manual - Swegon Indoor Climate Configuration Tool







20210922



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# Section 1: To install the SWICCT

The program is available for downloading at www.swegon.com /Support/ Software.

Click on Open

Vill du öppna eller spara <b>SWICCT~1.zip</b> (4,41 MB) från <b>swegon.com</b> ?	Öppna	Spara 🔻	Avbryt	×

Start installing the software by clicking on "SWICCT\_Install.msi". If your are reinstalling the program, make sure that previous version has been uninstalled before you start the new one.



When this box appears, click on "Next".

ᡖ swicct	
Welcome to the SWICCT Setup Wizard	
The installer will guide you through the steps required to install SWICCT on your WARNING: This computer program is protected by copyright law and internation Unauthorized duplication or distribution of this program, or any portion of it, may or criminal penalties, and will be prosecuted to the maximum extent possible und	computer. Nal treaties. esult in severe civil er the law.
Cancel < Back	Next >



Press "Browse" to choose a spot in your computer where you can put the software. Then click on "Next".

B SWICCT		-	
Select Installation Folder			
The installer will install SWICCT to the follo	wing folder.		
To install in this folder, click "Next". To inst	all to a different fo	lder, enter it below	or click "Browse".
<u>F</u> older:			
C:\Program Files (x86)\Swegon AB\SW	ICCT\		Browse
			Disk Cost
Install SWICCT for yourself, or for anyone	e who uses this co	omputer:	
Everyone			
Just me			
	Cancel	< Back	Next >

The installation is now ready to start. Click on "Next".

影 SWICCT	
Confirm Installation	<b>_</b>
The installer is ready to install SWICCT on your co	omputer.
Click "Next" to start the installation.	
C	ancel < Back Next >

The installation is now completed, click on "Next".



#### To install the driver for cable

The installation file for the driver is located in the folder you downloaded from the home page.

Open the "CP210x\_VCP\_Windows" subfolder.



Select the driver based on the type of operating system in your computer, i.e. 32/64 bits, "CP210xVCPIn-staller\_x86.exe" or "CP210xVCPInstaller\_x64.exe". Double-click on the installation file that fits the type of operating system in your computer (x64 = 64 bits and x86 = 32 bits).

#### What type of system do I have?

(Based on Windows 7).

6

To determine what type of system your computer has, go to the Control Panel and click on "System and Security". Then click on System. You can determine what type of system you have under "Type of system".





Now you can install the driver that fits your type of system.

😪 🌖 – 🔟 « Acer (C:) 🕨 Program	(x86) ► Swegon AB ► CP210x_VCP_Windows ►	<b>- 4</b> 3 Sõ	k i CP210x_VCP_Windo	ws p
Ordna ▼ Inkludera i bibliotek ▼	Dela med 🔻 Ny mapp		833	• 🔟 🔞
👉 Favoriter	Namn	Senast ändrad	Тур	Storlek
Hämtade filer	🕌 x64	2014-01-07 11:15	Filmapp	
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🖫 Tidigare platser	SCP210xVCPInstaller_x64	2013-03-06 23:13	Program	655 kB
	CP210XVCr Installer_x00	2013-03-06 23:13	Program	533 kB
词 Bibliotek	dpinst	2013-03-06 23:13	XML-dokument	12 kB
📔 Bilder	ReleaseNotes	2013-03-06 23:13	Textdokument	10 kB
Dokument	SLAB_License_Agreement_VCP_Windows	2013-03-06 23:13	Textdokument	9 kB
📑 Filmer	slabvcp	2013-03-06 23:13	Säkerhetskatalog	11 kB
👌 Musik	🗿 slabvcp	2013-03-06 23:13	Installationsinfor	5 kB
I Dator 실 Acer (C:) G Microsoft Office Klicka-och-kör 20 에 Nätverk				
9 objekt				



If you are requested to extract compressed folders, do so...

SWICCT\_Install Windows Installer-paket ....and open the "CP210x..." folder and then double-click on the CP210xVCPInstaller file.



When this box appears, click on "Next".



Read through the license agreement, select "I accept the agreement" and then click on "Next".

License Ag	reement	
Ň	To continue, accept the following license agreement. T agreement, use the scroll bar or press the Page Down k	o read the entire key.
	LICENSE AGREEMENT SILICON LABS VCP DRIVER IMPORTANT: READ CAREFULLY BEFORE AGREE THIS PRODUCT CONTAINS THE SILICON LABS VC INSTALLER PROGRAMS AND OTHER THIRD PAR SOFTWARE.TOGETHER THESE PRODUCTS ARE AS THE "LICENSED SOFTWARE". USE OF THE LIC SOFTWARE IS SUBJECT TO THE TERMS OF THIS	ING TO TERMS
	<ul> <li>I accept this agreement</li> <li>I don't accept this agreement</li> </ul>	Print
	< Föregående	lästa > Avbryt





The driver for the unit has been installed, click on "Finish".

CP210x USB to UART Bridge Dr	iver Installer	
	Completing the In CP210x USB to UA	stallation of the RT Bridge Driver
	The device driver installation wi software for your hardware devi the software you currently have	zard did not update any of your ces because it was not better than installed.
	Driver Name	Status
	✓ Silicon Laboratories (sila	Ready to use
	< Föregående	Slutför Avbryt

When the installation has been completed, you will find a folder named "Swegon AB" at the previously selected place in your computer. Then open the "SWICCT" folder.

rdna • Inkludera i bibliotek •	Dela med • Bränn Kompatibilitetsfiler	Ny mapp		· =	
Favoriter	Nemn	Senast ändrad	Тур	Stor	iek 🛛
	Sonic Zip.DLL	2014-01-23 15:33	Programtillägg		452 kB
Bibliotek	imodbusControl.DLL	2013-08-09 09:46	Programtillägg		22 kB
	SWICCT	2014-01-23 15:33	Program		565 kB
Dator	WSMBS_Swegon.DLL	2014-01-23 15:33	Programtillägg		38 kB



# Section 2: To connect the unit

This is what you need for using the SWICCT.



There are two options on how you can connect up to the system, on the loop or on an individual controller. Each controller has four ports, numbered: 22, 23, 24 and 25. Port 22/23 belongs to the master loop and Port 24/25 belongs to the slave loop. These are completely independent of one another. The sensor modules are connected to the slave loop. The connections between master-slave-slave are also connected to the slave loop. The master-slave connection is done on the master loop. To connect up to the slave loop, use either Port 24/25 or a sensor module. To connect up to an individual unit, connect into its master loop, Port 22/23.





The sensor modules should have different IDs. The ID of a sensor module can be changed by screwing the back side of the sensor module as illustrated. To read the temperature from a specific sensor module, select this reading under "Service mode" - "Temperature settings". The sensor module should then have ID 1.



This sensor module has ID 2.

## To connect up to an individual unit

If you want to connect up to an individual controller, connect into its master loop (Port 22 or 23). The unit's Modbus ID is then shown in the tree.

Communication	
Manual configuration COM3 38400	When you are connected up to a unit's master loop, search for it by clicking on "Search". The unit will appear in the tree and you can then click on "Stop search".
Automatic scan Search Stop search	Further particulars on how to search for units are explained under the heading "Connection settings" in the next section.
10	



The unit is now identified by its Modbus address in the tree. In the case shown in the image, the controller has Modbus address 7. Accordingly, this is not the same as "Slave ID". If you intend to make a change in a specific unit and you are unsure of its ID, you can connect up to the master loop of the specific unit. It looks the same in the tree regardless of whether you connect up to a slave or a master.



Slave Modbus address 7 Slave ID 3

Device tree 7 URC1

L

7 URC1 $\rightarrow$  Slave with Modbus ID 7.

If you connect up to a master it looks the same, i.e. the master's Modbus ID is shown in the tree.

## To connect up to a slave loop

38400 ¥ None ¥	Manual c	onfiguration	
None v	20100		
vone +	None		

When you connect up to a sensor module or the slave loop, you should mark an X in the "connected to URC1 sensor module" box when you are searching for units.

Further particulars on how to search for units are explained under the heading "Connection settings" in the next section.

When you connect up to a loop the controllers are identified by their slave ID, the master gets ID 0. Two examples of different connections and how this is show in the tree in SWICCT are shown below.



#### Example: Master-slave-slave-slave



In this position you can mark the relevant unit in the tree for adjusting the settings. By connecting up to the slave loop, you are benefited by being able to change several units by simply connecting up to one point. What is important is that you can keep an eye on which unit is located in a given rum and its ID.

#### Example: Master-slave-slave/master-slave

When you have a system divided into master-slave-slave/master-slave, this involves two separate loops and it is necessary to connect up to two different places in order to reach all the units. Accordingly, this must be done in two steps: first connect up to one loop (Connection 1) and then connect up to the second loop (Connection 2).







If you start from the same connection as the one above but interconnect master-master via their master loops (Port 22/23) and connect on the SWICCT via the master loop on one of the master units illustrated below then you can see both masters in the tree.





# Section 3: Using the SWICCT

# Logging in

Open the program and log in by entering the following:



If nothing happens when you enter your "Login", you have probably entered an incorrect user name or password.

#### **Connection settings**

Here you can enter settings for finding the relevant unit/units that are connected up. Instructions on how you connect up to the unit can be found under Section 2 "To connect the unit".

Connection settings Status and Information Customer configuration Service mode Update About and license	Device tree
Swegon Indoor Climate Configuration Tool	0 URC1
Connected to URC1 sensor module     Communication   COM3   COM3   COM3   38400   None     Automatic scan   Search   14     Download files from ftp   Units Metric<      Units Metric     Comesciention     Communication     Output     Communication     Communication     Units Metric     Communication     Communication     Communication     Communication     Communication     Units Metric     Communication     Commu	Ext
Selected controller: URC1 Master	





If you have opened the program for the first time, you must fetch the files from the "ftp" server. To do so, click on "Download files from ftp".

If this box appears when you are trying to search for units, this is probably because you have forgotten to download the files from the server.

#### To search for the unit:

ommunication		
Manual con	figuration	
COM3	•	Coloct which cor
38400	•	Select which cor
None	•	

Select which com port, speed and parity is in use.

#### To find which port is active:



Open the unit manager. Go in under "Ports (COM and LPT)" where the ports that are active are shown, in this case COM3.





#### To change the Modbus ID:

if you want to change the Modbus ID of a unit, right-hand click on the unit in the tree. It is not possible to change the ID of a slave if you are connected up via a sensor module. To change the ID of a slave, you must connect up to the specific unit's master loop. This results in a change of Modbus ID.



It is possible to change the Modbus ID by right-hand clicking on the unit in the tree.

A scroll bar will then appear. Select which Modbus ID you want to give the unit.



## **Status and information**

The status of the product read by means of selected sensors is shown under this tab.

nection settings Status	and Informa	tion Customer configuration	Service mode Update About and license	Device tree
Read staus from controller	Update c	continuously		0 URC1 - 2 URC1
General status			Active alam(s)	
Condensation: No			No active alarm(s)	
Commissioning: Off				
Device state: Occu	bied			
Actual values				
Room temperature	23,9	℃		
CO2	0	ppm		
VOC	0	ppm		
Pressure	0	Pa		
Airflow	1,1	l/s		
Occupancy (incl. delay)	1			
Heat demand	0	%		
Cool demand	98,9	%		
Air quality demand	0	%		
Damper position	0	%		
				Exit

Read staus from controller

Update continuously

#### **General status**

General status	
Condensation:	No
Commissioning:	Off
Device state:	Holiday

Click on "Read status from controller" or mark an X in the "Update continuously" box to see the current values.

#### Description

Condensation: Yes or No, indicates whether or not condensation alarms are connected

Commissioning: On or Off depending on whether the system is operating in the commissioning mode

Device state: Status on the controller: if the controller is a slave, only "slave" is shown.



#### **Actual values**

The readings transmitted from the sensor modules connected to the loop are shown here. If several sensors are used, you can choose under the "Service mode" tab and under "Temperature settings" whether a specific sensor should read the values or whether a mean value should be calculated.

Actual values		
Room temperature	23,9	°C
CO2	0	ppm
VOC	0	ppm
Pressure	0	Pa
Airflow	1,1	l/s
Occupancy (incl. delay)	1	
Heat demand	0	%
Cool demand	98,9	%
Air quality demand	0	%
Damper position	0	%

## Active alarm

Active alam(s)

No active alarm(s)

- Room temperature: Shows current operation status
- CO<sub>2</sub> / VOC shows current air quality level
- Pressure: Current nozzle pressure on master (N.B. – Will show zero when the damper is closed)
- Airflow: Shows the room's supply airflow
- Occupancy: Signal from occupancy sensor, 1
   = Occupancy, 0 = No occupancy
- Heat demand: Indicates the room's heating demand as a percentage
- Cool demand: Indicates the room's cooling demand as a percentage
- Damper position indicates possible extra air triggered by the air quality sensor

Possible active alarms are shown here.



# **Customer configuration**

The settings for the various inputs and outputs of the product can be entered here.

SWICCT	
Connection settings Status and Information Customer configuration Service mode Update About and license	Device tree
Output configuration       Digital output 1 (21)       Water cooling primary sequence        Normally closed           Analog output 1 (19)       Not used        Normally closed           Digital output 2 (18)       Water heating        Normally closed           Analog output 2 (16)       Not used        Normally closed           Digital output 3 (15)       Power supply        Normally closed           Analog output 3 (13)       ECOPulse        Normally closed	URC1 2 URC1
Input configuration Input 1 usage Not used ✓ Input 3 usage Not used ✓ Input 4 usage Not used ✓ Occ mode Use occupancy sensor ✓	
Read current values	Ext
Selected controller: URC1 Master	

Read current values

Click on "read current values" enable the current settings for the product to be read into the system.



URC1



## **Output configuration**

Select the settings to be used for the various ports. Various settings for each port are available in the scrolldown lists. The settings are dependent on how the product is wired and what functions it has. All the configurations are selectable as "normally closed" or "normally open" however NO/NC is used only with thermal actuators.

Digital output 1 (21)	Water cooling	<b>→</b>	lormally closed
Analog output 1 (19)	Not used	•	lomally closed
Digital output 2 (18)	Water heating	•	lomally closed
Analog output 2 (16)	Not used	•	lomally closed
Digital output 3 (15)	Power supply	•	lomally closed
Analog output 3 (13)	ECOPulse	-	ormally closed

Digital output 1, 2, 3 (21, 18, 15)	Description
$\rightarrow$ Not used	No signal on the output
$\rightarrow$ Power supply	24V constant supply out from the output
$\rightarrow$ Water cooling	24V when there is a cooling signal
$\rightarrow$ Water heating	24V when there is a heating signal
$\rightarrow$ Water change over 2 pipe	24V for cooling/heating demand
$\rightarrow$ Water cooling primary sequence	Cooling sequence 0-50% 24V
$\rightarrow$ Water cooling secondary sequence	Cooling sequence 50-100% 24V
$\rightarrow$ Water heating primary sequence	Heating sequence 0-50% 24V
$\rightarrow$ Water heating secondary sequence	Heating sequence 50-100% 24V
$\rightarrow$ Light Control	Lighting output on/off signal
Analogue output 1, 2, 3 (19, 16, 13)	Description
$\rightarrow$ Not used	No signal on the output
$\rightarrow$ Water cooling	0-10V for a cooling demand
$\rightarrow$ Water heating	0-10V for a heating demand
$\rightarrow$ Water change over 2 pipe	0-10V for cooling/heating demand
$\rightarrow$ Water change over 4 pipe	For 6-way valve, 0-5V=cooling, 5-10V=heating
$\rightarrow$ Water cooling primary sequence	Cooling sequence 0-50% 0-10V
$\rightarrow$ Water cooling secondary sequence	Cooling sequence 50-100% 0-10V
$\rightarrow$ Water heating primary sequence	Heating sequence 0-50% 0-10V
$\rightarrow$ Water heating secondary sequence	Heating sequence 50-100% 0-10V
$\rightarrow$ ECOPulse	Control signal for integrated damper at 3 different operating modes
$\rightarrow$ 2step	Control signal for integrated damper at 3 different operating modes
$\rightarrow$ Variable	Control signal for integrated damper at 3 different operating modes
$\rightarrow$ ADAPT analogue extract air	Calculated 0-10V signal for extract air (ADAPT Damper)
$\rightarrow$ ADAPT slave supply air	ADAPT Parasol slave (control signal to internal damper)
→ Light Control	Lighting output control signal



## Input configuration

Select the settings to be used for the various ports.

input i usage	Not used	
Input 3 usage	Not used	•
Input 4 usage	Not used	•
Occ mode	Use occupancy sensor	•

## Description of the options available for selection for the various input ports.

Input 1 usage	
$\rightarrow$ Not used	Not used
$\rightarrow$ Room Temperature	External temperature sensor is used
$\rightarrow$ Change over temperature	Ext. Temp sensor for change-over is used
$\rightarrow$ Temperature (read only)	Only temp. reading, no regulation
$\rightarrow$ Window contact NO	Window contact normally open
$\rightarrow$ Window contact NC	Window contact normally closed
Input 3 usage	
$\rightarrow$ Not used	Not used
→ CO2 0-10V	CO2 sensor with 0-10 V control range
→ CO2 2-10V	CO2 sensor with 2-10 V control range
Input 4 usage	
$\rightarrow$ Not used	Not used
$\rightarrow$ Keycard switch NO	Keycard switch normally open
$\rightarrow$ Keycard switch NC	Keycard switch normally closed
$\rightarrow$ Window contact NO	Window contact normally open
$\rightarrow$ Window contact NC	Window contact normally closed
$\rightarrow$ Change-over contact NO	Change-over contact normally open
$\rightarrow$ Change-over contact NC	Change-over contact normally closed
Occ mode	
Use occupancy sensor	Detect occupancy/no occupany
Always occupied	Force to occupancy mode





## Service mode

Under this tab you can adjust the settings of the various modes of the product, for instance. The switch-on of various modes can also be forced, for measurement and checks, for instance.

Ø SWICCT v1.18								_		×
Connection settings Status a	nd Information	Customer con	figuration Service mode Upda	ate Parame	eter access A	bout and license		Device	tree	
Temperature setpoint setting	s		Controller settings			Airflow settings		4 URC1		
Cooling setpoint OCC	1900	°C * 100	Ventilation boost delay	72	h	K-factor short side (1+3)	0 k * 100			
Heating setpoint OCC	1800	°C * 100	Ventilation boost time	5	min	K-factor long side (2+4)	657 k * 100			
Cooling setpoint NoOCC	2400	°C * 100	Temperature offset timer	0	h	Zero cal. pressure senso	or 🗌			
Heating setpoint NoOCC	2100	°C * 100	Occupancy on delay	5	s	Airflow setpoint HOLIDA	Y 100 I/s*10			
Cooling setpoint Holiday	2400	°C * 100	Occupancy off delay	3600	s	Airflow setpoint UNOCC	100 l/s * 10			
Heating setpoint Holiday	1500	°C * 100	Occupancy type	Auto	~	Airflow setpoint OCC	200 l/s * 10			
Cooling setpoint SNC	2400	°C * 100	Two step cooling delay	10	min	Airflow setpoint MAX	1200 l/s * 10			
Heating setpoint SNC	1600	°C * 100	Air cooling sequense	Water -Air	~	Min cooling Pressure	50 dPa			
Regulator settings			Slave air function	Variable	~	ADAPT EA analog min	100 l/s * 10			
P. hand Heating	200	°C * 100	Heat type	Water actu	iator 🗸	ADAPT EA analog max	1200 I/s * 10			
P Pand Cooling	200	°C * 100	Cold draft protection level	0	% * 100	ADAPT EA offset	0 % * 100			
F-Barid Cooling	200	C 100	Cold draft protection stop	0	% * 100					
L Time Ceeling	20		Cold draft protection UnOcc			Commissioning	Watar			
P. Pand sidew	20	1/2 * 10	Actuator period time	600	s	AII	waler			
	20	1/5 10	Continuous airflow type	Linear	~					
I-time aimow	20	S								
CO2/VOC			Temperature settings			O Max				
VOC use	Off	$\sim$	Room temperature sensor us	se		Min holliday	Valve first open function			
CO2/VOC min set value	800	ppm	Mean value of sensor modul	le(s)	~	[	STOP water actuators			
CO2/VOC max set value	1000	ppm	Input 1 usage (External temp	o)						
Input 3 usage	Not used	~	Not used		~	Check slave bus				
			ChOv-4 Dead Zone low limit	550	V * 100	Write settings to file	Read current values		Exit	
			ChOV-4 Dead Zone high lim	it 650	V * 100					_

#### **Temperature setpoint settings**

Specify the temperature limits that shall apply to the relevant mode of the product.

Temperature setpoint settings		
Cooling setpoint OCC	2300	°C * 100
Heating setpoint OCC	2200	°C * 100
Cooling setpoint NoOCC	2400	°C * 100
Heating setpoint NoOCC	2000	°C * 100
Cooling setpoint Holiday	2500	°C * 100
Heating setpoint Holiday	1600	°C * 100
Cooling setpoint SNC	2400	°C * 100
Heating setpoint SNC	1500	°C * 100

#### Description

Switch-on temperature, cooling/heating in the following:

– OCC	Occupancy mode
– NoOCC	No occupancy mode
– Holiday	Holiday mode
– SNC	Summer night cool



## **Regulator settings**

Regulator settings		
P-band Heating	200	°C * 100
P-Band Cooling	200	°C * 100
I-time Heating	20	min
I-Time Cooling	20	min
P-Band airflow	400	l/s * 10
I-time airflow	60	s

# co,/voc

CO2/VOC		
VOC use	Off	•
CO2/VOC min set value	600	ppm
CO2/VOC max set value	1000	ppm
Input 3 usage	Not used	•

#### Description

P-band and I-times for regulation of water and air.

## Description

- The use of VOC air quality sensor
- Off No sensor should be used. Used for actively indicating that an already registered sensor has been removed. Otherwise the system will initiate an alarm.
- Auto, detects whether a sensor is connected
- Min. value in ppm for regulation with an air quality sensor
- Max. value in ppm for regulation with an air quality sensor
- The regulator steplessly regulates the airflow between these values.
- Input 3 usage: Choice whether a 0-10V or 2-10V sensor is used



#### **Controller settings**

Controller settings		
	[]	
Ventilation boost delay	72	h
Ventilation boost time	5	min
Temperature offset timer	0	h
Occupancy on delay	5	s
Occupancy off delay	3600	s
Occupancy type	Auto	~
Two step cooling delay	10	min
Air cooling sequense	Water -Air	~
Slave air function	Variable	~
Heat type	Water actu	ator 🗸
Cold draft protection level	0	% * 100
Cold draft protection stop	0	% * 100
Cold draft protection UnOcc		
Actuator period time	600	s
Continuous airflow type	Linear	~

**Ventilation boost delay:** After how many hours of no occupancy the airflow should be boosted for ventilating the room

Ventilation boost time: How long should the boost mode run

On delay: Delay of signal transmission when occupancy is detected

Off delay Delay of signal transmission when no occupancy is detected

#### Occupancy type

$\rightarrow$	Auto	Occupancy sensor ir	n Auto	operation	mode
---------------	------	---------------------	--------	-----------	------

- $\rightarrow$  Occupancy forced Boosted airflow during occupancy
- $\rightarrow$   $\,$  No occupancy forced  $\,$  Boosted airflow during no occupancy  $\,$

Water first

Two step cooling delay: Delay between steps when two-step cooling is run

#### Air Cooling sequence

- $\rightarrow$  Air-Water-Air
- $\rightarrow$  Air-Water

Air first

#### Slave air function:

Alternative regulation function, slaves, can be made here (Variable = standard procedure)

#### Heat type:

"Radiator" should be selected if radiators are used or floor heating is used. On a heating demand, boosted airflow to supply extra air is blocked.

#### **Cold draft protection level** (for Heat type radiators):

How much should the heating actuators open for cold draft protection.

#### Cold draft protection stop (for Heat type radiators):

In response to which cooling signal should the cold draft protection switch off (heat actuator closes)

**Cold draft protection UnOcc:** Cold draft protection when there is no occupancy

Actuator period time: Length of period for actuator

#### Continuous airflow type:

- → ADAPT Parasol Position for ADAPT Parasol
- → Normal Position for analog motor damper
- → Linear Position for PARASOL Zenith VAV

## **Airflow settings**

A	irflow settings		
	K-factor min flow	51	
	K-factor max flow	416	
	Zero cal. pressure sensor		
	Airflow setpoint HOLIDAY	50	l/s * 10
	Airflow setpoint UNOCC	40	l/s * 10
	Airflow setpoint OCC	200	l/s * 10
	Airflow setpoint MAX	320	l/s * 10
	Min cooling Pressure	200	dPa
	ADAPT EA analog min	NOT_FOU	l/s * 10
	ADAPT EA analog max	NOT_FOU	l/s * 10
	ADAPT EA offset	NOT_FOU	% * 100

#### Description

C-factor of relevant product's min. flow

C-factor of current product's max. flow

Zero point calibration (done immediately) Airflow to the room in Holiday mode

Airflow to the room in No occupancy mode Airflowto the room in Occupancy mode

Airflow to the room for boost/max. mode

Lowest permissible nozzle pressure so that the cooling valve will open

Min. airflow for slave-controlled extract air damper

Max. airflow for slave-controlled extract air damper

Offset between supply air and extract air (positive or negative pressure in the room)

#### **Temperature settings**

Temperature settings		
Room temperature sensor use	•	
Mean value of sensor module	(s)	-
Input 1 usage (External temp)		
Not used		•
ChOv-4 Dead Zone low limit	550	V*100
ChOV-4 Dead Zone high limit	650	V*100

#### Description

Room temperature sensor use

$\rightarrow$	Mean vale of sensor modules	Uses the mean value from the sensor modules included in the loop
$\rightarrow$	Sensor module with MB ID 1	Uses the temperature reading from the sensor module with Address 1.
$\rightarrow$	External temperature sensor	Uses only the temperature reading from external temp. sensor
$\rightarrow$	Mean value of sensor modules and ext. Temp. sensor	Uses the mean value of sensor modules and external Temp. sensor
Input	1 usage (External temp)	
$\rightarrow$	Not used	No external temperature sensor is used
$\rightarrow$	Room temperature	Measures the room temperature and regulates according to it
$\rightarrow$	Change over temperature	Use of the sensor in a change-over system
$\rightarrow$	Temperature read only	Sensor measures only temperature, no regulation
$\rightarrow$	Window contact NO	Use of window contact which is normally open
$\rightarrow$	Window contact NC	Use of window contact which is normally closed



## Commissioning

		Description	ı		
Commissioning	Water	Air		Water	
<ul> <li>Off</li> <li>Min unoccupied</li> <li>Min occupied</li> </ul>	<ul> <li>Off</li> <li>Open cooling valve</li> <li>Open heating valve</li> </ul>	– Off	No commission- ing mode acti- vated	– Off	No commissioning mode activated
<ul> <li>Max</li> <li>Min holliday</li> </ul>	<ul> <li>Valve first open function</li> <li>STOP water actuators</li> </ul>	– Min/Max	Operate the damper in the forced mode	– Open	Force the valves to open

Valve first open function: Energises the actuators for 6 minutes to activate them. (Supplied in open condition, will now close)

STOP water actuators: Closes the actuators

# Update

Browse and fetch the latest program update.

URC1 Controller_1.26	-	Update
Update all devices visible in device tree	U	pdate slaves onnected to selected master

"Update slaves...": Updates the underlying slaves with selected software

