Fan Coil Controller and more
Webinar – Competence Center Europe – Building Automation
Ilija Zivadinovic, Martin Wichary, Juergen Schilder, Thorsten Reibel
Webinar “Fan Coil Controller and more”

Agenda

**ClimaECO – new Devices**

- FanCoil Controller FCC/S
- Room Control Units SAR/A and SAF/A
- ClimaECO sensors
Webinar “Fan Coil Controller and more”

A holistic HVAC Building Automation System, over 30 new devices

Availability: July – October 2018
Webinar “Fan Coil Controller and more”

ClimaECO: ABB i-bus® KNX HVAC Solutions
Fan Coil Controller and more
Fan Coil Controller FCC/S
Webinar “Fan Coil Controller and more”

Fan Coil Unit in principle (4-pipe System)
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Fan Coil Controller FCC/S

Motivation – New Features

- Most comprehensive product family for controlling all kind of Fan Coil Units in the KNX market → 9 Components!
- Electrothermal and motor valve drives
  - 2 electronic outputs
- 0-10 V valve drives
  - 2 x 0-10 V outputs
- 1,2, or 3 step fans
- 0 - 10 V fans
- All combinations of digital and analogue fan and valve control
- Integrated room temperature controller for conventional room control units (RCU)
- Parametrizable as actuator or controller
Webinar “Fan Coil Controller and more”
Fan Coil Controller FCC/S

Motivation – New Features

- With and without manual operation
- 4 inputs for binary and analogue signals (PT100, PT1000, KTY, NTC, NI 1000) and connection of Room Control Unit (RCU) for setpoint and room temperature
- Control of 6-way valves
- Control of Ventilation flaps (Variable Air Volume)
- ABB i-bus tool support
- Keypad for easy and fast manual operation
- Additional relay, e.g. for electrical heater
- Budget variant, one valve output, no additional switch contact and no manual operation
- Existing Fan Coil Actuators will be replaced
**Webinar “Fan Coil Controller and more”**

Fan Coil Controller FCC/S

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**Motivation – New Features**

**ETS Application**

- Control of 6-way valves (4-pipe system)
  - One 0-10 V output for heating/cooling
- Control of ventilation flaps
  - Control values: 0-10V, 1-10V, 2-10V and 10-0V
- Temperature limitation
  - Allows to limit the temperature of a floor (in case of floor heating) to protect the material and to improve the comfort
- Start-up: Fan level the fan coil unit starts with
  - Level 1,2 or 3 with minimum holding time
- Run-on: Time the fan stays in the current level though a lower level is required
  - Individual time for each level

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Fan Coil Controller FCC/S

Family FCC/S 1.x.x.1

FCC/S 1.1.1.1
3-step Fan, electrothermal valve 2-fold or motor valve drive 1-fold

FCC/S 1.1.2.1
3-step Fan, electrothermal valve 2-fold or motor valve drive 1-fold, manual Op.

FCC/S 1.2.1.1
3-step Fan, Valve 0-10 V

FCC/S 1.2.2.1

FCC/S 1.3.1.1
Fan 0-10 V, Valve 0-10 V

FCC/S 1.3.2.1
Fan 0-10 V, Valve 0-10 V, manual Op.

FCC/S 1.5.1.1
Fan 0-10 V, electrothermal valve 2-fold or motor valve drive 1-fold

FCC/S 1.5.2.1
Fan 0-10 V, electrothermal valve 2-fold or motor valve drive 1-fold, manual Op.
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Fan Coil Controller FCC/S

Family FCC/S 1.x.x.1

FCC/S 1.4.1.1
3-step Fan, electrothermal valve drive 1-fold
(no additional switch contact)
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

FCC/S 1.1.x.1

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs
## Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

### FCC/S 1.1.x.1

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs

![Diagram of FCC/S 1.1.x.1](image)
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

FCC/S 1.2.x.1

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

**FCC/S 1.3.x.1**

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs
**Webinar “Fan Coil Controller and more”**

Fan Coil Controller FCC/S

### FCC/S 1.5x.1

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

**FCC/S 1.5x.1**

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Cover cap
6. Inputs (a, b, c, d)
7. Valve output A
8. Valve output B
9. Fan output
10. Additional Relais
11. Button/LED switch valve output
12. Buttons/LED open/close valve output
13. Button/LED open/close relais output
14. Button/LED switch fan speed
15. Button/LED activate manual operation
16. LED status of inputs
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

**FCC/S 1.4.1.1**

1. Label carrier
2. KNX programming button
3. KNX programming LED (red)
4. KNX connection
5. Inputs (a, b, c, d)
6. Valve Output
8. Fan output
## Webinar “Fan Coil Controller and more”

### Fan Coil Controller FCC/S

#### Family FCC/S 1.x.x.1 – Functional Overview

<table>
<thead>
<tr>
<th>Function/Device</th>
<th>FCC/S 1.1.x.1</th>
<th>FCC/S 1.2.x.1</th>
<th>FCC/S 1.3.x.1</th>
<th>FCC/S 1.4.1.1</th>
<th>FCC/S 1.5.x.1</th>
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<td>Integrated Room temperature controller (unified RTC)</td>
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<td>Valve Control</td>
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<td>PWM</td>
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<td>-</td>
<td>X (1)</td>
<td>X (2)</td>
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<tr>
<td>or motoric</td>
<td>X (1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X (2)</td>
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<td>0-10V</td>
<td>-</td>
<td>X (2)</td>
<td>X (2)</td>
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<td>Control of 6-way valves</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>2-pipe system</td>
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<td>4-pipe system</td>
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<td>3-stage fan (5A)</td>
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<td>Continuous fan</td>
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<td>Inputs for sensors</td>
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<td>Inputs for analogue RCU</td>
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<td>Relay output (electrical heater) (16A)</td>
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<td>Variant with keypad</td>
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<tr>
<td>Variant without keypad</td>
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</table>
# Webinar “Fan Coil Controller and more”

## Fan Coil Controller FCC/S

### Family FCC/S 1.x.x.1

<table>
<thead>
<tr>
<th>Model</th>
<th>Functionality</th>
<th>Availability</th>
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<tbody>
<tr>
<td>FCC/S 1.1.2.1</td>
<td>3-step Fan/electr. out.</td>
<td>July 2018</td>
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<tr>
<td></td>
<td>2CDG 110 211 R0011</td>
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<td></td>
<td>Availability: July 2018</td>
<td></td>
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<td>FCC/S 1.1.1.1</td>
<td>3-step Fan/electr. out.</td>
<td>July 2018</td>
</tr>
<tr>
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<td>2CDG 110 210 R0011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Availability: July 2018</td>
<td></td>
</tr>
<tr>
<td>FCC/S 1.2.2.1</td>
<td>3-step Fan/0-10V Valve</td>
<td>July 2018</td>
</tr>
<tr>
<td></td>
<td>2CDG 110 213 R0011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Availability: July 2018</td>
<td></td>
</tr>
<tr>
<td>FCC/S 1.2.1.1</td>
<td>3-step Fan/0-10V Valve</td>
<td>July 2018</td>
</tr>
<tr>
<td></td>
<td>2CDG 110 212 R0011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Availability: July 2018</td>
<td></td>
</tr>
</tbody>
</table>
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Fan Coil Controller FCC/S

**Family FCC/S 1.x.x.1**

- **FCC/S 1.3.2.1**
  - 0-10V Fan and Valve
  - 2CDG 110 215 R0011
  - Availability: July 2018

- **FCC/S 1.3.1.1**
  - 0-10V Fan and Valve
  - 2CDG 110 214 R0011
  - Availability: July 2018

- **FCC/S 1.5.2.1**
  - 0-10V Fan/electr. out.
  - 2CDG 110 235 R0011
  - Availability: July 2018

- **FCC/S 1.5.1.1**
  - 0-10V Fan/electr. out.
  - 2CDG 110 234 R0011
  - Availability: July 2018
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Fan Coil Controller FCC/S

**FCC/S 1.4.1.1**

- 3-step Fan / electr. out.
- One valve output
- No additional relay
- 2CDG 110 209 R0011
- Availability: July 2018
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

Comparision FCA/S – FCC/S

– FCC/S:
  • Integrated controller to connect simple and cost efficient Room Control Units
  • Control of analogue fan with EC Motor and VAV flaps, both via 0-10 V
  • All combinations for fan- and valve control for different Fan Coil Units from the market

– FCA/S only:
  • 4 electronic outputs
  • Relay outputs for fan also as standard switching outputs adjustable
  • Staircase time for additional relay

– Please note: Fan Coil Actuators FCA/S will be phased out!

Fan Coil Actuators FCA/S will be phased out!
EC Motor

- Standard Fan speed control of fan coil units is a motor with 3 steps
- Control of speed via simple AC-Motors with switchable voltage by means of a transformer
- Fan Coil Units are offered with EC Motor (electronic commutating), also called BLDC Motor (BrushLess DC motor)
- Advantage:
  - Continuous speed control via 0-10V signal
  - High efficiency (compared with AC asynchron motor and frequency inverter)
  - No wear (compared with conventional DC motor and brushes)
  - Increase of comfort, efficiency and accuracy for temperature control with Fan Coil Units
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

FCC/S linked with Room Control Unit (RCU)

FCC/S 1.x.x.1
Working as Controller

SAF/A
Room Control Units (non KNX)

Direct link
Set point and room temperature
One way communication
Webinar “Fan Coil Controller and more”
Fan Coil Controller FCC/S

FCC/S linked with KNX Room Temperature Controller (RTC)

FCC/S 1.x.x.1
Working as Actuator

KNX link
All option regarding communication
Two way communication

ClimaECO sensor with RTC
or any other RTC
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S

FCC/S linked with ClimaECO sensors with temperature sensor

FCC/S 1.x.x.1
Working as Controller

KNX link
All option regarding communication
Two way communication

ClimaECO sensor/RTC Slave

both with temperature sensor
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Fan Coil Controller FCC/S

Assignment Controller - Actuator

FCC/S 1.x.x.1
Parametrized as: ACTUATOR

FCC/S 1.x.x.1
Parametrized as: CONTROLLER

Analogue Inputs (Setpoint/Room temperature)

... any KNX RTC

... Temp. Sensor to input FCC/S

... Temperature sensor, e.g. via analogue input or ClimaECO sensor RTC slave

... Room Control Unit SAF/A or temperature sensor linked to input of FCC/S
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Fan Coil Controller FCC/S - ABB i-bus tool
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S - ABB i-bus tool
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S - ABB i-bus tool
Webinar “Fan Coil Controller and more”

Fan Coil Controller FCC/S - ABB i-bus tool
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Fan Coil Controller FCC/S

Technical documents

www.abb.com/KNX

→ Product category
  → Heating, Ventilation, Air Conditioning
  → FCC/S

- Product Manual
- Technical datasheet
- Installation and operating instructions
- Specification Text
- ETS Application
- Application Note
- CE declaration of conformity
- ...
Fan Coil Controller and more
Room Control Units SAR/A and SAF/A
Webinar “Fan Coil Controller and more”

Room Control Units SAR/A and SAF/A

**Motivation – Features**

- Conventional operating element for room temperature control
- Term: Room Control Unit (RCU)
- Simple to use
- Lower in price
- To be competitive in projects with demands for such a solution
- Simple and cost efficient user interface but powerful system behind (ClimaECO)
- Two different devices
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Room Control Units SAR/A and SAF/A

**Motivation – Features**

- SAR/A with set point control for radiators, floor heating and cooling ceiling
- SAF/A with set point and fan speed control for fan coil units
  - Integrated temperature sensor
  - White color
  - Surface mounted
- No KNX device!
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Room Control Units SAR/A and SAF/A

FCC/S linked with RCU

FCC/S 1.x.x.1
Working as controller

Direct link
Set point and room temperature
One way communication

SAF/A
Room Control Unit (non KNX)
Webinar “Fan Coil Controller and more”
Room Control Units SAR/A and SAF/A

Valve Drive Controller VC/S linked with RCU

VC/S 4.x.1 Working as controller

Direct link
Set point and room temperature
One way communication

SAR/A Room Control Unit (non KNX)
Webinar “Fan Coil Controller and more”
Room Control Units SAR/A and SAF/A

Connection FCC/S - RCU

4 wires required
- 2 wires for setpoint input A (mandatory)
  • Input in FCC/S is parametrized as ‘used as analogue RCU input’
- 2 wires for room temperature input B, C or D
  • optional, can come also from another sensor, e.g. presence detector
  • ETS parameter of input in FCC/S to be adjusted as temperature sensor
  • Type of temperature sensor NTC, NTC type NTC20
- Fan speed signal detection via different resistor levels on setpoint wires in addition to the NTC resistance of setpoint
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Room Control Units SAR/A and SAF/A

**SAR/A1.0.11-24**

- Room control unit with set point control for radiators, floor heating and cooling ceiling and integrated room temperature sensor
- Color white
- Availability: July 2018
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Room Control Units SAR/A and SAF/A

**SAF/A1.0.11-24**

- Room control unit with set point control and fan speed control for fan Coil Units and integrated room temperature sensor
- Color white
- Availability: July 2018
Fan Coil Controller and more

ClimaECO sensors
Webinar “Fan Coil Controller and more”

ClimaECO sensors

**Motivation – New Features**

- New range of push button sensors and room temperature controller created together with the project ClimaECO
- Complete product range:
  - Control element 8-fold and 12-fold with integrated temperature sensor
  - Control element with RTC slave 6- and 10-fold (no controller)
  - Control element with RTC 6- and 10-fold
  - Control element with RTC 6- and 10-fold plus CO₂ and humidity sensor and controller
- Labelling with icons and/or text via an web-tool by the customer himself
- All devices with an mechanical anti theft protection
Webinar “Fan Coil Controller and more”

ClimaECO sensors

**Motivation – New Features**

- Installation in many countries in the world (VDE, BS, NEMA, Australian brackets, etc.)
- Sensors can be installed/mounted in a flush mounted box or separate surface mounted box
- Unified RTC concept
- Available in studio white
- Native ETS application for ETS4 and ETS5
- Values and icons are shown on a white illuminated display
- Status LED’s with day and night mode
- Status LED’s with ABB color concept
- No frame required
- Availability: open
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ClimaECO sensors

**FCC/S linked with ClimaECO sensors with RTC**

FCC/S 1.x.x.1  
Working as Actuator

KNX link  
All option regarding communication  
Two way communication

ClimaECO sensor with RTC  
or any other RTC
Webinar “Fan Coil Controller and more”

ClimaECO sensors

FCC/S linked with ClimaECO sensors with temperature sensor

FCC/S 1.x.x.1
Working as Controller

KNX link
All option regarding communication
Two way communication

ClimaECO sensor/RTC Slave

both with temperature sensor
Valve Drive Controller VC/S linked with ClimaECO sensor RTC

VC/S 4.x.1
Working as Actuator

KNX link
All option regarding communication
Two way communication

ClimaECO sensor with RTC
or any other RTC
Webinar “Fan Coil Controller and more”

ClimaECO sensors

Valve Drive Controller VC/S linked with ClimaECO sensors with temperature sensors

VC/S 4.x.1
Working as Controller

KNX link
All option regarding communication
Two way communication

ClimaECO sensor/RTC Slave

both with temperature sensor
Webinar “Fan Coil Controller and more”

ClimaECO sensors

Control Element with RTC Slave, 6-fold

<table>
<thead>
<tr>
<th>Article number:</th>
<th>SBS/U6.0.1-84</th>
</tr>
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<tbody>
<tr>
<td>Order number:</td>
<td>2CKA006330A0002</td>
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</table>

Technical information:

- Dimension (WxHxD): 90mm x 116mm x 13mm
- Color: Studio white
- Status LED: RGB-color concept
- Labelling field: Yes
- FM mounting: Yes
- Surface mounting: Yes, with separate support frame
- Installation Standard: VDE, BS, CH, NEMA
- KNX-participant: 2 (max. 24mA)
**Webinar “Fan Coil Controller and more”**

ClimaECO sensors

### Control Element with RTC Slave, 10-fold

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>Article number</td>
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<td>Order number</td>
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<td><strong>Technical information:</strong></td>
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<tr>
<td>Dimension (WxHxD):</td>
<td>90mm x 166mm x 13mm</td>
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<tr>
<td>Color:</td>
<td>Studio white</td>
</tr>
<tr>
<td>Status LED:</td>
<td>RGB-color concept</td>
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<tr>
<td>Labelling field</td>
<td>Yes</td>
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<tr>
<td>FM mounting:</td>
<td>Yes</td>
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<td>Surface mounting:</td>
<td>Yes, with separate support frame</td>
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<td>Installation Standard:</td>
<td>VDE, BS, CH, NEMA</td>
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<tr>
<td>KNX-participant:</td>
<td>2 (max. 24mA)</td>
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## RTC with Control Element, 6-fold

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<tr>
<th><strong>Article number:</strong></th>
<th>SBR/U6.0.1-84</th>
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<td>2CKA006330A0004</td>
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### Technical information:

- **Dimension (WxHxD):** 90mm x 116mm x 13mm
- **Color:** Studio white
- **Status LED:** RGB-color concept
- **Labelling field:** Yes
- **FM mounting:** Yes
- **Surface mounting:** Yes, with separate support frame
- **Installation Standard:** VDE, BS, CH, NEMA
- **KNX-participant:** 2 (max. 24mA)
Webinar “Fan Coil Controller and more”

ClimaECO sensors

RTC with Control Element, 10-fold

Article number: SBR/U10.0.1-84
Order number: 2CKA006330A0008

Technical information:
Dimension (WxHxD): 90mm x 166mm x 13mm
Color: Studio white
Status LED: RGB-color concept
Labelling field: Yes
FM mounting: Yes
Surface mounting: Yes, with separate support frame
Installation Standard: VDE, BS, CH, NEMA
KNX-participant: 2 (max. 24mA)
**RTC, CO₂/Humidity Sensor with Control Element, 6-fold**

- **Article number:** SBC/U6.0.1-84
- **Order number:** 2CKA006330A0009

**Technical information:**
- **Dimension (WxHxD):** 90mm x 116mm x 13mm
- **Color:** Studio white
- **Status LED:** RGB-color concept
- **Labelling field:** Yes
- **FM mounting:** Yes
- **Surface mounting:** Yes, with separate support frame
- **Installation Standard:** VDE, BS, CH, NEMA
- **KNX-participant:** 2 (max. 24mA)
**RTC, CO₂/Humidity Sensor with Control Element, 10-fold**

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Article number</td>
<td>SBC/U10.0.1-84</td>
</tr>
<tr>
<td>Order number</td>
<td>2CKA006330A0011</td>
</tr>
<tr>
<td><strong>Technical information:</strong></td>
<td></td>
</tr>
<tr>
<td>Dimension (WxHxD)</td>
<td>90mm x 166mm x 13mm</td>
</tr>
<tr>
<td>Color</td>
<td>Studio white</td>
</tr>
<tr>
<td>Status LED</td>
<td>RGB-color concept</td>
</tr>
<tr>
<td>Labelling field</td>
<td>Yes</td>
</tr>
<tr>
<td>FM mounting</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface mounting</td>
<td>Yes, with separate support frame</td>
</tr>
<tr>
<td>Installation Standard</td>
<td>VDE, BS, CH, NEMA</td>
</tr>
<tr>
<td>KNX-participant</td>
<td>2 (max. 24mA)</td>
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### Control Element, Temp.sensor, 8-fold

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Article number:</td>
<td>SB/U8.0.1-84</td>
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<tr>
<td>Order number:</td>
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<td>Dimension (WxHxD):</td>
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<td>Color:</td>
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<tr>
<td>Status LED:</td>
<td>RGB-color concept</td>
</tr>
<tr>
<td>Labelling field:</td>
<td>Yes</td>
</tr>
<tr>
<td>FM mounting:</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface mounting:</td>
<td>Yes, with separate support frame</td>
</tr>
<tr>
<td>Installation Standard:</td>
<td>VDE, BS, CH, NEMA</td>
</tr>
<tr>
<td>KNX-participant:</td>
<td>1 (max. 12mA)</td>
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</tbody>
</table>
Webinar “Fan Coil Controller and more”

ClimaECO sensors

### Control Element, Temp. sensor, 12-fold

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Article number</td>
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<td>Dimension (WxHxD):</td>
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</tr>
<tr>
<td>Color:</td>
<td>Studio white</td>
</tr>
<tr>
<td>Status LED:</td>
<td>RGB-color concept</td>
</tr>
<tr>
<td>Labelling field:</td>
<td>Yes</td>
</tr>
<tr>
<td>FM mounting:</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface mounting:</td>
<td>Yes, with separate support frame</td>
</tr>
<tr>
<td>Installation Standard:</td>
<td>VDE, BS, CH, NEMA</td>
</tr>
<tr>
<td>KNX-participant:</td>
<td>1 (max. 12mA)</td>
</tr>
</tbody>
</table>
### Support Frame for Surface mounted Installation

**Support Frame small:**
- **Article number:** SAS/A.0.11-84
- **Order number:** 2CKA006330A0018

**Technical information:**
- **Dimension (WxHxD):**
- **Color:** Studio white
- **FM mounting:** Yes, only bold on
- **Surface mounting:** Yes, with separate support frame
- **Installation Standard:** No
# Webinar “Fan Coil Controller and more”

## ClimaECO sensors

### Support Frame for Surface mounted Installation

<table>
<thead>
<tr>
<th>Support Frame large:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Article number:</td>
<td>SAB/A.0.11-84</td>
</tr>
<tr>
<td>Order number:</td>
<td>2CKA006330A0020</td>
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</tbody>
</table>

### Technical information:

- **Dimension (WxHxD):**
- **Color:** Studio white
- **FM mounting:** Yes, only bold on
- **Surface mounting:** Yes, with separate support frame
- **Installation Standard:** No
Webinar “Fan Coil Controller and more”

ClimaECO sensors

**Label Cover**

**Cover for label area RTC, small:**
- Article number: SLS/A.0.1-84
- Order number: 2CKA006330A0022

**Cover for label area RTC, large:**
- Article number: SLB/A.0.1-84
- Order number: 2CKA006330A0026
**Webinar “Fan Coil Controller and more”**

ClimaECO sensors

<table>
<thead>
<tr>
<th><strong>Label Cover</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cover for label area Control Element, small:</strong></td>
</tr>
<tr>
<td>Article number:</td>
</tr>
<tr>
<td>Order number:</td>
</tr>
</tbody>
</table>

| **Cover for label area Control Element, large:** |
| Article number: | SLX/A.0.1-84 |
| Order number:   | 2CKA006330A0028 |
Webinar “Fan Coil Controller and more”

FCC/S, SAF/A and ClimaECO sensor integrated in ClimaECO

FCC/S 1.x.x.1
Working as Actuator or Controller

ClimaECO sensors
(or any other RTC)

SAF/A
Room Control Units (non KNX)

Direct link
Webinar “Fan Coil Controller and more”

Next Webinar

**ClimaECO – Devices**

New ClimaECO devices:
- Valve Drive Controller VC/S
- Heating/Cooling Circuit Controller HCC/S
- Boiler/Chiller Interface BCI/S

**Wednesday 12th September 2018**
- Morning 09:00 am Europe Time (Berlin, UTC + 2h)
- Afternoon 03:00 pm Europe Time (Berlin, UTC + 2h)
Webinar “Fan Coil Controller and more”

Next Webinar

**EQmatic – Energy Analyzer QA/S**

- Energy Analyzer
  - M-Bus QA/S 3.x.1
  - Modbus QA/S 4.x.1 – new!
- New Firmware-Update
  - Modbus/TCP (for data transfer to other systems)
  - Scheduled data sending

**Wednesday 19th September 2018**

- Morning 09:00 am Europe Time (Berlin, UTC + 2h)
- Afternoon 03:00 pm Europe Time (Berlin, UTC + 2h)
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