



BUILDING AND HOME AUTOMATION SOLUTIONS

# Release Note

## Fan Coil Controller

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BUILDING AND HOME AUTOMATION SOLUTIONS

# Release Note

## Fan Coil Controller

|               |                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Product name  | Fan Coil Controller, MDRC                                                                                                         |
| Product type  | FCC/S 1.x.y.1 (x = 1, 2, 3, 4, 5; y = 1, 2)<br>FCC/S 1.x.2.11 (x = 1, 2, 3, 5)                                                    |
| Order code    | FCC/S 1.x.y.1: 2CDG110xxxR0011 (xxx = 209, 210, ..., 215, 234, 235)<br>FCC/S 1.x.2.11: 2CDG110xxxR0021 (xxx = 211, 213, 215, 235) |
| Latest change | ETS Application Update, 29/07/2022<br>Firmware Update, 29/07/2022                                                                 |

Current Status:

| Product Type | Order Code      | Website              | ETS Application                                                                                                                                                                                                                                                                                          | Firmware                                                           |
|--------------|-----------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| FCC/S1.1.1.1 | 2CDG110210R0011 | <a href="#">Link</a> | V1.2<br>Fan Coil Controller,<br><br>PWM, 3-stage<br>PWM, 3- stage, manual Operation<br>0-10V, 3- stage<br>0-10V, 3- stage manual Operation<br>0-10V, 0-10V<br>0-10V, 0-10V, manual Operation<br>PWM, 3- stage, 2-Rohr<br>PWM, 0-10V<br>PWM, 0-10V, manual Operation<br><br><a href="#">Download here</a> | V0.0.19<br>(available in ETS-App<br>„ABB Firmware-<br>Update 2.0”) |
| FCC/S1.1.2.1 | 2CDG110211R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.2.1.1 | 2CDG110212R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.2.2.1 | 2CDG110213R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.3.1.1 | 2CDG110214R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.3.2.1 | 2CDG110215R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.4.1.1 | 2CDG110209R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.5.1.1 | 2CDG110234R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |
| FCC/S1.5.2.1 | 2CDG110235R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                          |                                                                    |

| Product Type  | Order Code      | Website              | ETS Application                                                     | Firmware                                                           |
|---------------|-----------------|----------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
| FCC/S1.1.2.11 | 2CDG110211R0021 | <a href="#">Link</a> | V1.2<br>Fan Coil Controller,                                        | V0.0.19<br>(available in ETS-App<br>„BJE Firmware-<br>Update 2.0”) |
| FCC/S1.2.2.11 | 2CDG110213R0021 | <a href="#">Link</a> | PWM, 3- stage, manual Operation<br>0-10V, 3- stage manual Operation |                                                                    |
| FCC/S1.3.2.11 | 2CDG110215R0021 | <a href="#">Link</a> | 0-10V, 0-10V, manual Operation<br>PWM, 0-10V, manual Operation      |                                                                    |
| FCC/S1.5.2.11 | 2CDG110235R0021 | <a href="#">Link</a> | <a href="#">Download here</a>                                       |                                                                    |

**NOTE:**

We recommend ensuring that devices are always installed and operating using the latest firmware and software versions. Claims for defects or damages due to the use of software or firmware versions that have not been kept up to date will not be accepted.

**ETS APPLICATION**

| Product Type   | Version | Release Date | Updates and Release Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|---------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC/S 1.x.y.x1 | 1.2     | 29/07/2022   | <ul style="list-style-type: none"> <li>Improved compatibility with unified RTC 1 devices</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| FCC/S 1.x.y.x1 | 1.1     | 14/12/2021   | <ul style="list-style-type: none"> <li>Adaption of the temperature accuracy with DPT 9.001, the highest possible accuracy is now used.</li> <li>Text corrections and adaptations of parameter &amp; group object texts, alignment with user manual</li> <li>Devices are now supported by the Update, Copy, Convert ETS App</li> <li>Correction of the status displaying of the inputs on the keypad and in the i-bus Tool. Now always the physical condition of the input is shown, instead of the object.</li> <li>Formerly possible overdrive of the valve outputs during active heat/frost protection has been adapted</li> <li>Flags for group objects fill level alarm, dew point alarm and control value heating have been adapted, Flags T and U have been set</li> <li>Correction of the behavior of the parameter „maximum manual increase in cooling mode via KNX“, up to now the value out of the parameter „maximum manual decrease in cooling mode via KNX“ has been used</li> <li>The parameter „Reset manual setpoint adjustment when base setpoint received“ is hidden if the setpoint adjustment is set to „absolute“, as it's without functionality in that case</li> <li>The parameter „Operating mode after bus voltage recovery, ETS Download and reset“ has been adapted to „Operating mode after bus voltage recovery and ETS Download. The option “as before bus voltage failure/download“ has been added.</li> <li>Correction of the cyclical sending behavior of the control values. A change of the control value is only sent cyclical</li> <li>For the parameter „Temperature input monitoring“ the option „on active physical temperature inputs“ has been added.</li> <li>If a temperature sensor is used for the temperature limitation it is no longer considered for the determination of the current room temperature.<br/>If it should still be used therefor the sensor value must be connected via a group object</li> </ul> |

|                |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |      |         | <ul style="list-style-type: none"> <li>• New parameter "Fault reset valve output" for the automatic reset of the 0-10V valve output in case of failure has been added</li> <li>• It has been ensured that the fan relays and the relay output will be switched off (contact open) after the first connection of the device with the bus. Also, after every bus voltage recovery the relays are switched into their set position</li> <li>• If a 2-point (Open/Close) valve drive is used together with a PI controller the fan speed now follows the actual control value (0...100%) in the fan automatic mode</li> <li>• The group object „Error „control value“ receipt“ has been added in the actuator mode. (Monitor receipt of group object "control value")</li> <li>• The behavior of the control value after bus voltage failure has been corrected. When „as before bus voltage failure“ is selected the right control value is used</li> <li>• The group object „Fault fan output“ has been added</li> <li>• Wrongful valve assignment if device was used for cooling only in the actuator mode has been fixed. (only FCC/S 1.5.x.1.)</li> <li>• For the cyclical monitoring of the operating mode the group object „Error „operating mode“ receipt“ has been added</li> <li>• If parameterized as actuator the parameter „valve drive opening/closing time“ was displayed twice, this has been removed (only FCC/S 1.2.x.1)</li> </ul> <p>i-bus Tool:</p> <ul style="list-style-type: none"> <li>• If a window contact input was simulated the return from building protection didn't happen at revoke of the simulation. The behavior has been fixed</li> <li>• The overwrite of the operating mode via the i-bus Tool has now the same priority as if done via the group object "Operation mode normal (Master)"</li> </ul> |
| FCC/S 1.x.y.x1 | 1.0a | 01/2021 | Adaption of the ETS catalog structure. No further changes compared to the previous version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| FCC/S 1.x.y.x1 | 1.0  | 08/2018 | Market introduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### FIRMWARE

Note: For firmware update please use ETS App „KNX Bus Update“ ([Engineering Guide](#))

| Product Type   | Version | Release Date | Updates and Release Notes                                                                                                                                                        |
|----------------|---------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC/S 1.x.y.x1 | 0.0.19  | 29/07/2022   | <ul style="list-style-type: none"> <li>• Improved stability operating system</li> </ul>                                                                                          |
| FCC/S 1.x.y.x1 | 0.0.17  | 14/12/2021   | <ul style="list-style-type: none"> <li>• Improved update stability</li> <li>• Optimization of transmission behavior in the event of KNX bus faults and high bus load.</li> </ul> |
| FCC/S 1.x.y.x1 | 0.0.13  | 08/2018      | Market introduction                                                                                                                                                              |

# Softwareinformation

## Fan Coil Controller

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| Produktname      | Fan Coil Controller, REG                                                                                          |
| Produkttyp       | FCC/S 1.x.y.1 (x = 1, 2, 3, 4, 5; y = 1, 2)<br>FCC/S 1.x.2.11 (x = 1, 2, 3, 5)                                    |
| Bestellnummer    | 2CDG110xxxR0011 (xxx = 209, 210, ... 215, 234, 235)<br>FCC/S 1.x.2.11: 2CDG110xxxR0021 (xxx = 211, 213, 215, 235) |
| Aktuelle Version | ETS Applikationsupdate, 29/07/2022<br>Firmware Update, 29/07/2022                                                 |

Aktueller Status:

| Produkttyp   | Bestellnummer   | Webseite             | ETS Applikation                                                                                                                                                                                                                                                                                                                         | Firmware                                                                    |
|--------------|-----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FCC/S1.1.1.1 | 2CDG110210R0011 | <a href="#">Link</a> | <p>V1.2<br/>Fan Coil Controller,</p> <p>PWM, 3-stufig<br/>PWM, 3-stufig, manuelle Bedienung<br/>0-10V, 3-stufig<br/>0-10V, 3-stufig, manuelle Bedienung<br/>0-10V, 0-10V<br/>0-10V, 0-10V, manuelle Bedienung<br/>PWM, 3-stufig, 2-Rohr<br/>PWM, 0-10V<br/>PWM, 0-10V, manuelle Bedienung</p> <p><a href="#">Hier herunterladen</a></p> | <p>V0.0.19<br/>(Verfügbar in ETS-App<br/>„ABB Firmware-Update<br/>2.0“)</p> |
| FCC/S1.1.2.1 | 2CDG110211R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.2.1.1 | 2CDG110212R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.2.2.1 | 2CDG110213R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.3.1.1 | 2CDG110214R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.3.2.1 | 2CDG110215R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.4.1.1 | 2CDG110209R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.5.1.1 | 2CDG110234R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |
| FCC/S1.5.2.1 | 2CDG110235R0011 | <a href="#">Link</a> |                                                                                                                                                                                                                                                                                                                                         |                                                                             |

| Produkttyp    | Bestellnummer   | Webseite             | ETS Applikation                                                                                                                                                                                                              | Firmware                                                          |
|---------------|-----------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| FCC/S1.1.2.11 | 2CDG110211R0021 | <a href="#">Link</a> | V1.2<br>Fan Coil Controller,<br><br>PWM, 3-stufig, manuelle Bedienung<br>0-10V, 3-stufig, manuelle Bedienung<br>0-10V, 0-10V, manuelle Bedienung<br>PWM, 0-10V, manuelle Bedienung<br><br><a href="#">Hier herunterladen</a> | V0.0.19<br>(Verfügbar in ETS-App<br>„BJE Firmware-Update<br>2.0“) |
| FCC/S1.2.2.11 | 2CDG110213R0021 | <a href="#">Link</a> |                                                                                                                                                                                                                              |                                                                   |
| FCC/S1.3.2.11 | 2CDG110215R0021 | <a href="#">Link</a> |                                                                                                                                                                                                                              |                                                                   |
| FCC/S1.5.2.11 | 2CDG110235R0021 | <a href="#">Link</a> |                                                                                                                                                                                                                              |                                                                   |

#### BEMERKUNG:

Wir empfehlen Ihnen, immer die aktuellste Softwareversion zu installieren. Ansprüche aus Mängeln oder Schäden aufgrund einer nicht aktuell gehaltenen Softwareversion können nicht geltend gemacht werden.

#### ETS APPLIKATION

| Produkttyp     | Version | Erscheinungsdatum | Updates und Release Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|---------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC/S 1.x.y.x1 | 1.2     | 29/07/2022        | <ul style="list-style-type: none"> <li>Verbesserte Kompatibilität mit unified RTR 1 Geräten</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| FCC/S 1.x.y.x1 | 1.1     | 14/12/2021        | <ul style="list-style-type: none"> <li>Anpassung der Temperaturgenauigkeit bei DPT 9.001, es wird jetzt die größtmögliche Genauigkeit verwendet</li> <li>Textkorrekturen und Anpassungen der Parameter- &amp; Kommunikationsobjekttexte, Angleichung an Handbuch</li> <li>Geräte werden von der Update, Copy, Convert App unterstützt</li> <li>Korrektur der LED Anzeige der Eingänge auf der Folientastatur &amp; im i-bus Tool. Es wird jetzt immer der physikalische Zustand des Eingangs angezeigt und nicht der des Objekts</li> <li>Bisher mögliche Übersteuerung der Ventilausgänge trotz aktivem Hitze-/Frostschutz wurde korrigiert</li> <li>Flags bei Objekten Füllstandsalarm, Taupunktalarm und Stellgröße Heizen korrigiert, ÜA gesetzt</li> <li>Korrektur Verhalten bei Parameter „max. manuelle Anhebung Kühlbetrieb über KNX“, es wurde fehlerhaft der Wert der „max. manuellen Absenkung Kühlbetrieb“ verwendet</li> <li>Parameter „Zurücksetzen der manuellen Sollwertverstellung bei Empfang eines Basissollwerts“ wird ausgeblendet, wenn die Sollwertfestlegung und -verstellung absolut erfolgt, da er in diesem Fall ohne Funktion ist</li> <li>Der Parameter „Betriebsmodus nach Busspannungswiederkehr, ETS Download und Reset“ wurde angepasst zu „Betriebsmodus nach Busspannungswiederkehr und ETS Download“. Die Option „wie vor Busspannungsausfall/Download“ wurde ergänzt</li> <li>Korrektur Sendeverhalten Stellgröße des Reglers bei zyklischem Senden. Eine Veränderung der Stellgröße wird nur noch zyklisch gesendet.</li> <li>Im Parameter „Überwachung Temperatureingang“ wurde die Option „auf aktiven physikalischen Temperatureingänge“ hinzugefügt</li> <li>Wird ein Temperatursensor für die Temperatursicherheitsabschaltung verwendet wird er nicht mehr für die Ermittlung der Ist-Temperatur berücksichtigt.</li> </ul> |

|                |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |      |         | <p>Soll dies trotzdem weiter erfolgen muss der Sensorwert per Kommunikationsobjekt verknüpft werden</p> <ul style="list-style-type: none"> <li>• Neuer Parameter „Störung Ventilausgang zurücksetzen“ zum automatischen Rücksetzen des 0-10V Ventilausgangs bei Störung ergänzt</li> <li>• Es wurde sichergestellt, dass Lüfter- &amp; Zusatzrelais nach dem ersten Anschluss des Geräts an Bus ausschalten (Kontakt geöffnet). Zusätzlich werden bei Busspannungswiederkehr alle Relais aktiv in ihre Sollposition geschaltet.</li> <li>• Bei Verwendung eines 2-Punkt Antriebs mit einem PI Regler verhält sich die Lüfterautomatik nun entsprechend der tatsächlichen Stellgröße der Regelung zwischen 0...100%</li> <li>• Im Aktormodus wurde das Kommunikationsobjekt „Fehler Empfang Stellgröße“ ergänzt (Überwachung Empfang Kommunikationsobjekt „Stellgröße“)</li> <li>• Verhalten der Stellgröße nach Busspannungswiederkehr wurde korrigiert, bei Einstellung „wie vor Busspannungsausfall“ wird die korrekte Stellgröße wieder eingestellt</li> <li>• Kommunikationsobjekt „Störung Lüfterausgang“ für 0-10V Lüfter ergänzt, zeigt Fehler am Ausgang an</li> <li>• Fehlerhafte Ventilzuordnung des FCC/S 1.5.x.1 bei Verwendung nur zum Kühlen im Aktormodus korrigiert</li> <li>• Für die zyklische Überwachung wurde das Kommunikationsobjekt „Fehler Empfang Betriebsmodus“ ergänzt</li> <li>• FCC/S 1.2.x.1: Bei Parametrierung als Aktor wurde der Parameter „Öffnungs-/Schließzeit des Antriebs“ doppelt angezeigt. Fehler wurde behoben</li> </ul> <p>i-bus Tool:</p> <ul style="list-style-type: none"> <li>• Bei Simulation eines Eingangs mit Fensterkontakt erfolgte bei Rücknahme der Simulation keine Rückkehr aus Gebäudeschutz, das Verhalten wurde korrigiert</li> <li>• Die Übersteuerung des Betriebsmodus im i-bus Tool hat die gleiche Priorität wie der über das Kommunikationsobjekt „Betriebsmodus Normal (Master)“ gesetzte Wert</li> </ul> |
| FCC/S 1.x.y.x1 | 1.0a | 01/2021 | Änderung der ETS-Katalogstruktur. Keine weiteren Änderungen gegenüber der Vorgängerversion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| FCC/S 1.x.y.x1 | 1.0  | 08/2018 | Markteinführung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

#### FIRMWARE

Hinweis: Für Firmwareupdate verwenden Sie bitte die ETS App „KNX Bus Update“ ([Engineering Guide](#))

| Produkttyp     | Version | Erscheinungsdatum | Updates und Release Notes                                                                                                                                             |
|----------------|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC/S 1.x.y.x1 | 0.0.19  | 29/07/2022        | <ul style="list-style-type: none"> <li>• Verbesserte Stabilität Betriebssystem</li> </ul>                                                                             |
| FCC/S 1.x.y.x1 | 0.0.17  | 14/12/2021        | <ul style="list-style-type: none"> <li>• Verbesserte Stabilität bei Updates</li> <li>• Optimierung Sendeverhalten bei KNX Busstörungen und hoher Bus-Last.</li> </ul> |
| FCC/S 1.x.y.x1 | 0.0.13  | 08/2018           | Markteinführung                                                                                                                                                       |