



# Release Paper Firmware GMM sincon

## Version from 2015-07-27

GRCF H00X S007a (b)

### New features:

- Performance improvements (necessary for WiFi)
- Change of error message, in case, that the input ENPO of the VFD is not set from actual: "VFD 1: !ENPO" to "VFD 1: not enab."  
Furthermore this state is only displayed in info menu and not written to alarm-history anymore.
- "Manual mode external": The digital input DI2 can now be used to control the manual mode with a previously configured controlled value. The new option can be found in the I/O configuration menu.

### Corrected errors:

- Additions and corrections to the CAN parameter interface used by the new Wi-Fi module.

### Additional notes:

- **The contents of the provided language versions are:  
Language version "a" now contains German, English and French.  
Language version "b" contains English, Spanish and Portuguese.**

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# Release Paper Firmware GMM sincon

**Version V006 from 2014-08-14**

GRCF H00X S006a (b)

Released by: Markus Jabs

Release date: 25.08.2014

## New software-features in V006

### Access to all parameter via CAN-BUS.

With new coming up version of GMM-COM, it will be possible, to read out, modify all parameter.

Additionally it is possible, to make a list print of all parameters after commissioning

### Enhancements for new fieldbus-moduls, e.g. (W)LAN

## Corrected errors:

### Mailfunktion in conjunction with several VFD

In cabinets with several VFD in some cases alarms "VFD x: NOK" where in the error history even though GMM sincon is OK.

Futhermore one alarm-message was not decoded correctly and was displayed as "unknown"

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# Release Paper Firmware GMM sincon

Version V005 from 2014-03-20

GRCF H00X S005a (b)

## New software features in V005

### Bus modul:

In combination with Modbus RTU modul with firmware version 20/20 the baudrate and framing/parity can be configured

### Maintenance run:

Dependent on a configurable time, the fan stops, the fans will run for a short time, to prevent a fixing.

### GHM spray CAN bus communication

The GHM spray can be connected by CAN bus connection.

In this case, rpm, refrigeration, unit and heat exchanger type will be transmitted between GMM sincon and GHM spray.

### Offset-Adjustment for temperature inputs

In service menu, for analogue input **AI2** and **AI3** an offset can be configured, to adjust temperature sensors.

### Alarm-Messages

When several errors occur at same time, now they will be displayed time dependent in info menu. There is no periodization between the errors and warning.

## Corrected errors:

### Manual hardware bypass with several VFD

In cabinet with several VFD and switched ON manual hardware-bypass, for VFD 1 the relay for VFD-control of all other VFDs was switched off.

Requirement is, that output of phase control is wired to all VFD-inputs ISD00.

### Error while commissioning

When while commissioning, the request "now switch all VFD OFF" is acknowledged before all VFD are off, the VFD is not found in the following procedure.

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Date: 14.08.2013	Date: 03.08.2015	Date: 03.08.3025	Date: 03.08.2015	Revision: 1.0
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# Release Paper Firmware GMM sincon

**Version V004 from 11.06.2013**

GRCF H00X S004a (b)

## New software features in V004

### Offset adjustment for temperature sensors

In the maintenance menu, it is possible to adjust measurement for input AI 2 and AI 3.

## Corrected errors:

### Emergency-Handling

When VFD is operating heavy cross (a lot of warnings in conjunctions with over current) an error can occur.

In this error state, the controller GRCF recognizes not, that VFD has an error.

In this conjunction, the software of VFD was also modified, so that this error cannot occur any longer

### HW-Bypass

When GMM sincon switches from VFD-operation to HW-bypass operation, now the VFD is shut down via quick-stop.

Otherwise, when GMM sincon switches back to VFD operation very quickly, an over current error can occur.

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# Release Paper Firmware GMM sincon

Version V003 from 21.11.2012

GRCF H00X S003a (b)

## New software features in V003

### New Default-Parameter after commissioning

ramp up: 2 Hz/s

ramp down: 2 Hz/s

### New heat exchanger type

Now it is possible, to configure heat exchanger type evaporator.

By default operating mode Slave Extern analog is set.

(Necessary for business NLA)

## Corrected errors:

### actual value menu:

When motor frequency is not equal to 50 or 60 Hz, a wrong value for output frequency is displayed in actual value menu.

e.g. motor frequency is 49,0 Hz. Output frequency is 49,0 Hz, 4,0 Hz was displayed.

### Over current while synchronising (E-OC 48)

When synchronizing is active, error over current could happen to VFD.

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# Release Paper Firmware GMM sincon

Version from 14.08.2012

GRCF H00X S002a (b)

## new software features in V002

### maximum selection, when AI2 and AI3 are used

as actual temperature value input. (GTF210 must be used)

### Comfortable threshold function with different dependencies:

With this new function, it is possible, to switch the threshold relay depended on configurable threshold values (control value, actual value temperature or pressure, ambient temperature or combination of them),

This function must be enabled in “service menu/features/threshold” and configured in the set point menu.

### Different language versions a and b

Language version **a** of this software has the following menu languages:

german, english, france, spain

Language version **b** of this software has the following menu languages:

english, france, spain, **portuguese**.

The language version is show in operating menu at the end of the software version of the GMM. e.g. GMM H005 S036a

### Bus-communication COV (change on value)

With the Modbus or Profibus Interface, the control value and the analogue input-values, will be transferred in or out in at last 500 milliseconds.

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# Release Paper Firmware GMM sincon

## Edit menu:

When edit a parameter, automatically the first unit is selected and blinking.

## VFD-Parameter: synchronisation

When switching from HW-Bypass to VFD operation, the VFD synchronized to rotation field of AC fans

## automatical Error reset

error of VFD will be automatically after configured time reseted

## Corrected errors:

- handling of different error state corrected and new added
- When control value base and control value start are configured, control value base will be given out only when control value base is reached.
- operating mode will not reset, when factory setting is activated, because operating mode now is configured while commissioning

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