



JM-200-ETH

Version Update from V. 1.22 to V. 1.28

We automate your success.

Revision 1.00

September 2017 / Printed in Germany

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Table of Contents

1	Introduction	4
	Operating system update	5
	JM-200-ETH version update - Overview	6
2	Enhancements	7
2.1	Various new features and modifications	8
	Additional JetIP/TCP server connections.....	9
	Enhanced error register 200009	10
2.2	Startup delay.....	11
	Setting the startup delay	12
3	Fixed software bugs	13
	Long key names caused a crash	14
	In renaming files names with the maximum number of characters caused the controller to crash	15

1 Introduction

Introduction	This chapter shows the history of OS versions.						
OS update - Why?	<p>An OS update lets you enhance the functionality of your device by</p> <ul style="list-style-type: none">▪ adding new functions▪ fixing software bugs▪ installing an OS of a specific version after its release						
Contents	<table><tr><th>Topic</th><th>Page</th></tr><tr><td>Operating system update.....</td><td>5</td></tr><tr><td>JM-200-ETH version update - Overview.....</td><td>6</td></tr></table>	Topic	Page	Operating system update.....	5	JM-200-ETH version update - Overview.....	6
Topic	Page						
Operating system update.....	5						
JM-200-ETH version update - Overview.....	6						

Operating system update

OS file for operating system update

For an OS update, you will need the following file:

OS file	Description
JM-200-ETH_1.28.0.00.os	OS file for JM-200-ETH with version 1.28

Downloading an operating system

You can download operating systems from the Jetter AG **homepage** <https://www.jetter.de/en/downloads.html>. There, the OS files for download can be found in the respective product category.

OS update by means of JetSym

To update the OS, proceed as follows:

Step	Action
1	Download the OS file from www.jetter.de .
2	Establish a connection between PC and controller.
3	In JetSym: Select menu item "Build -> Update OS" or Click on the button "OS Update" in the CPU window of the Hardware Manager.
4	Select the OS file.
5	Start the OS update by clicking OK.
6	Result: Following Power OFF/Power ON the new OS is launched.

Minimum requirements

For programming a JM-200-ETH with version 1.28, JetSym 5.3.0 or higher is required.

JM-200-ETH version update - Overview

V 1.28

The following table gives an overview of newly added features and fixed software bugs in OS version 1.28:

Feature	New	Fixed
Communication:		
JetIP server	✓	
File system:		
Rename		✓
System:		
Start delay	✓	
Error indication	✓	

2 Enhancements

Introduction

Jetter AG are continuously striving to add new features and functions to the controller JM-200-ETH. By updating your OS you are given the possibility to enhance the functionality of your controller. To do so, you need the following:

- an OS file
 - the software tool JetSym
 - a connection between PC and controller
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Contents

Topic	Page
Various new features and modifications	8

2.1 Various new features and modifications

Introduction	This chapter covers the new features and modifications	
Contents	Topic	Page
	Additional JetIP/TCP server connections	9
	Enhanced error register 200009	10
	Startup delay	11

Additional JetIP/TCP server connections

Obsolete technical data

Parameter	Description
Number of connections	4

New technical data

Parameter	Description
Number of connections	8

Why this change was made

Enabling multiple connections to be open at the same time.

Enhanced error register 200009

R 200009

Error bits added in this version are highlighted in gray:

Meaning of the individual bits

Bit 3 Error in file "ModConfig.da"

Bit 5 Fatal internal error of the unit executing the application program

Bit 10 Error message from a device on the Jetter Ethernet system bus

Bit 12 Error message from JetIPScan

Bit 16 Error message from NetConsistency

Bit 20 Internal error of the OS's memory management unit

Bit 21 Internal error of the application program's memory management unit

Bit 22 At booting up the system logger is active (register 209700 = 213)

Bit 24 IP address conflict detected

Module register properties

Type of access Read access

Value after reset 0

2.2 Startup delay

Introduction The device provides a register to which a delay time can be written.

Application The boot process of the device is delayed by the entered delay time.

Contents

Topic	Page
Setting the startup delay	12

Setting the startup delay

Introduction

If other devices connected to the bus have got a longer startup time, the boot process must be delayed.

Set delay time

To set the delay time, proceed as follows:

Step	Action
1	Switch on the device.
2	Enter the password. For this, write value 1112502132 (0x424f6f74) to R 202970.
3	Enter the desired delay time in steps of 100 ms into register 202971.

Result: The next boot process will be delayed by the set startup delay time before initializing the JX2 and JX3 system bus.

R 202970

Password register

Enter 1112502132 (0x424F6F74) into this register. Then enter the desired value into the startup delay time register. Now, the controller sets the value of this register to 0.

Register properties

Value	1112502132 (0x424F6F74)
-------	-------------------------

R 202971

Startup delay time

Write into this register the delay time in multiples of 100 milliseconds.

Register properties

Values	0 (OFF) ... 3,000 (300 seconds)
--------	---------------------------------

Value after reset	As described above (remanent)
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Procedure

- The controller only executes start delay, when switch S11 is in *RUN* position.
- Start delay is terminated by leaving the *RUN* position.

Display

- LED **D1** flashing slowly during the first half of the start delay time (approx. 1 Hz).
 - LED **D1** flashing fast during the second half of the start delay time (approx. 4 Hz).
-

3 Fixed software bugs

Introduction

This chapter describes the software bugs which have been fixed in the new OS version.

Contents

Topic	Page
Long key names caused a crash.....	14
In renaming files names with the maximum number of characters caused the controller to crash	15

Long key names caused a crash

Error description If for several locks/keys long names were entered in the file **/System/keys.ini**, the controller crashes.

Affected versions/revisions The following versions/revisions are affected by this bug:

OS version	JC-340/350	< 1.28.0.00
	JC-360/365 (MC)	< 1.28.0.00
	JC-940MC	< 1.10.0.00
	JC-310-JM	< 1.28.0.00
	JM-200-ETH	< 1.28.0.00
	JCM-350	< 1.20.0.00
Hardware revision	Not relevant	
Configuration or operating mode	Not relevant	

Remedy/workaround Make sure that the length (number of characters) of all names in the file **/System/keys.ini** does not exceed 224 characters.

Fixed versions/revisions Starting from the following versions/revisions this bug has been fixed:

OS version	JC-340/350	1.28.0.00
	JC-360/365 (MC)	1.28.0.00
	JC-940MC	1.10.0.00
	JC-310-JM	1.28.0.00
	JM-200-ETH	1.28.0.00
	JCM-350	1.20.0.00
Hardware revision	Not relevant	
Configuration or operating mode	Not relevant	

In renaming files names with the maximum number of characters caused the controller to crash

Error description

If a file was renamed and the new name had the maximum length of 63 characters, the controller crashed.

Affected versions/revisions

The following versions/revisions are affected by this bug:

OS version	JC-340/350	< 1.28.0.00
	JC-360/365 (MC)	< 1.28.0.00
	JC-940MC	< 1.10.0.00
	JC-310-JM	< 1.28.0.00
	JM-200-ETH	< 1.28.0.00
	JCM-350	< 1.20.0.00
Hardware revision	Not relevant	
Configuration or operating mode	Not relevant	

Remedy/workaround

Make sure that the length of the new name does not exceed 62 characters.

Fixed versions/revisions

Starting from the following versions/revisions this bug has been fixed:

OS version	JC-340/350	1.28.0.00
	JC-360/365 (MC)	1.28.0.00
	JC-940MC	1.10.0.00
	JC-310-JM	1.28.0.00
	JM-200-ETH	1.28.0.00
	JCM-350	1.20.0.00
Hardware revision	Not relevant	
Configuration or operating mode	Not relevant	

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