

JX3-THI2-RTD

Versions-Update from V. 1.03 to V. 1.04



Version Update

Jetter

Revision 1.02

October 2012 / Printed in Germany

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1 Introduction

Introduction This chapter shows the history of the JX3-THI2-RTD module's operating system versions.

- Operating System Update - Why?** An OS update allows you to
- expand the function range
 - fix software bugs
 - transmit a certain operating system version, for example at releasing a customer-specific operating system version
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Operating System Update

OS File for Operating System Update

For an operating system update, you will need the following file:

OS File	Description
JX3-THI2-RTD_1.04.0.00.os	Operating system file for JX3-THI2-RTD with version 1.04.0.00.

OS File Download

Jetter AG make operating system files available for download from their **homepage at <http://www.jetter.de>**. OS files can be found via quicklink on the support site of the JX3-THI2-RTD module.

Operating System Update by means of JetSym

To update your OS proceed as follows:

Step	Action
1	OS file download from www.jetter.de
2	Establish a connection between PC and controller
3	Execute the menu item Build > Operating System Update in JetSym
4	Select the OS file
5	Depending on the controller and on the module, the following items are to be specified: <ul style="list-style-type: none"> ▪ Module number ▪ Submodule socket ▪ Slave number ▪ I/O module number
6	Start the operating system update by ok
7	Result: After power cycling, the new operating system starts.

JX3-THI2-RTD Version Update - Overview

V 1.03

The following table gives an overview of newly added features and fixed software bugs in OS version 1.03:

Description	New	Fixed
JX3-THI2-RTD:		
With the sensor disconnected, the forcing function returned the value 0 and "Error". Now, forcing works properly - values can be simulated for a channel that is not used.		✓
Faster response to system bus requests. If a great number of JX3 modules was connected to a controller, the module JX3-THI2-RTD responded too slow.		✓
The response time after the module is powered up has been reduced.	✓	
Module registers 1100 and 1200 have been expanded from 16 to 32 bits. The following functions have been added: No-load (cable breakage) Short circuit Deficient temperature Over-temperature	✓	

V 1.04

The following table gives an overview of newly added features and fixed software bugs in OS version 1.04:

Description	New	Fixed
JX3-THI2-RTD:		
If T was < 0 °C, collective bit 16 in MR0 was deleted.		✓
Wrong temperature in three-wire mode, channel 2		✓

2 Fixed Software Bugs

Introduction

This chapter describes the software bugs which have been fixed in the new operating system release.

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Incorrect temperature measurements in 3-wire mode on channel 2

Symptoms

Temperature measurements in three-wire mode on channel 2 were incorrect: One half of the sensor line resistance was included in the calculation of measuring result. For instance, if the line resistance was 1 ohm, the module indicated a temperature value increased by 1 °C.

Affected Versions/Revisions

The following revisions of the JX3-THI2-RTD are affected by this bug:

OS version	<= 1.03.0.00
Hardware revision	not relevant
Configuration or operating mode	not relevant

Remedy/Workaround

There is no remedy to be applied to the releases concerned.

Fixed Versions/Revisions

Starting from the following versions/revisions of the JX3-THI2-RTD this bug has been fixed:

OS version	1.04.0.00
Hardware revision	not relevant
Configuration or operating mode	not relevant

If T was < 0 °C, collective bit 16 in MR0 was deleted.

Symptoms

Collective bit 16 in MR0 (valid bit of both channels) was deleted if T < 0 °C. This bug did not affect temperature measurements.

Affected Versions/Revisions

The following revisions of the JX3-THI2-RTD are affected by this bug:

OS version	<= 1.03.0.00
Hardware revision	not relevant
Configuration or operating mode	not relevant

Remedy/Workaround

There is no remedy to be applied to the releases concerned.

Fixed Versions/Revisions

Starting from the following version/revision of the JX3-THI2-RTD this bug has been fixed:

OS version	1.04.0.00
Hardware revision	not relevant
Configuration or operating mode	not relevant
