

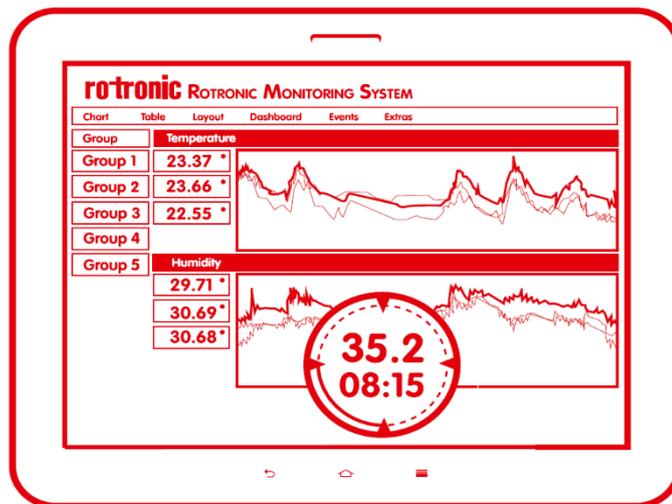
Rotronic Monitoring System

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Release Notes – RMS-HCD-IC

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Version: 1.3



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1. Version Overview

Please find below the meaning of the version.

- 1: Major version number.
- X.1: Minor version number.

2. Rotronic Tracking System

Rotronic use a tracking system to monitor bugs, features, improvements and change requests. This tracking system is the basis for any software, hardware and firmware User Requirement Specification based upon the GAMP@5 validation model.

Each point will be recognised with an ID (eg. RMS-XXX). A description and details are attributed to each point within the tracking system.

All changes documented within the RMS Release Notes will have an ID number and a description.

3. Version Control

Version	Release
V1.1	Daniel Schürmann
V1.2	James Pickering
V1.3	Denis Vujcic, 5 th of October 2022

4. Compatibility

4.1. RMS Software

Please see the online manual: <https://service.rotronic.com/manual/versionandchangecontrol.html>

5. Version V1.3

5.1. Release Details

• Summary:

With some devices, the first measured value after startup is a NAN. This can happen because the busy flag of the ASIC does not always work reliably, and therefore the humidity register is read out too early.

The error was implemented with the last release.

ID	Description
11111-3124	NAN on first humidity measurement after starting up

6. Version V1.2

6.1. Release Details

The main target of this firmware version has been to improve existing modbus protocol to a Rotronic standard Modbus protocol.

6.2. New Features

ID	Description
N/A	N/A

6.3. Improvements

ID	Description
RMS-3006	The Modbus commands were adapted/updated to the RMS-HCD-S standard.

6.4. Bug Fixes

ID	Description
N/A	N/A

6.5. Known Errors

N/A

6.6. Risk Analysis

The RMS-HCD-IC firmware has been tested.

The probability that the bug persists is low. The severity must be judged by the end user to define the risk class. The detectability will depend on how the customer uses the RMS-HCD-IC and as of such must be defined by the customer.

The regulated user knows their application and process and as such should carry out the necessary risk assessment to determine the severity, probability and detectability and define the process risk class based upon the features used within the RMS-HCD-IC. Please see the RMS-RA risk assessment for more details.

7. Version V1.1

7.1. Release Details

- **Summary:**

The current consumption proved to be clearly too high in the 0 series. The level shifter was localized as the reason.

Redesign of the circuit board. Voltage level of the whole circuit was raised to 3.3V. On the RXD line of the sensor a comparator circuit was used as level shifter.