RELEASE NOTES

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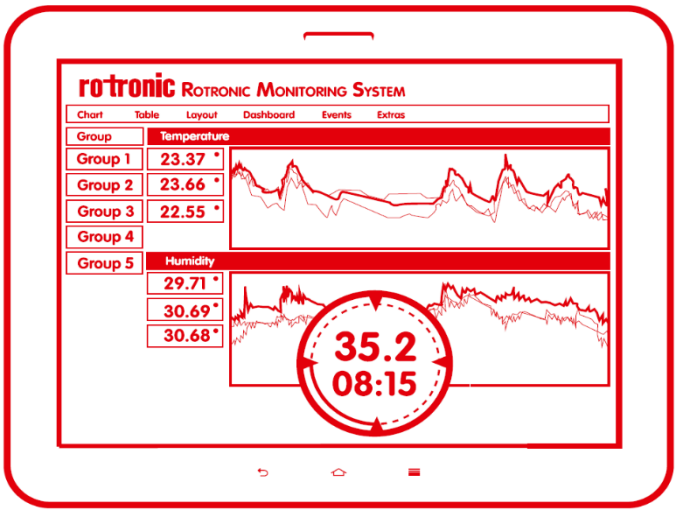
MEASUREMENT SOLUTIONS

Rotronic Monitoring System
-
Release Notes – RMS-DI-L-R
-
Version: 1.2



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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 detials 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
V1.0	Daniel Schürmann
V1.1	James Pickering
V1.2	Denis Vujicic, 5th of October 2022

4. Compatibility

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

5. Version V1.2

5.1. Release Details

• **Summary**:

This new firmware has been implemented due to a quartz that was used for the real time clock has been discontinued and has been replaced with another internal quartz. Rotronic took advantage of this firmware update to implement an improved watchdog feature also the improvement of the log data and key refresh.

ID	Description
11126-3174	Quartz replacement.
11126-3175	Improved watchdog feature.
11126-3106	When a data gap occurs, the user can push the try again button. Then the command to download the data from the logger is sent. Normally, if no data is available, "no data" will appear in the audit trail. With the RMS-DI-L-R a "timeout" will appear instead of "no data".
11126-3107	With a key refresh, a new key is generated, and the response is sent back with the new key. This interrupts the communication between the logger and the web service.
11126-3109	In case of a Key-refresh the webservice generates a data-gap and doesn’t show the message no data. This issue is an interaction between RMS and RMS-DI-L-R in encryption mode. It can be fixed, that the device sends to rms there aren’t new data. In that case the RMS- shows the message “No Data” and doesn’t generate a timeout readout message.
11126-3110	Data gaps appear in the audit trail

6. Version V1.1

6.1. Release Details

• **Summary**:

This firmware version has been programmed to improve the encrypted communication with the next version of the web service.

6.2. New Features

N/A

6.3. Improvements

ID	Description
1102	Extension of the Ethernet interface for encrypted communication with the next version of the web service

6.4. Bug Fixes

ID	Description
1101	The serial number becomes negative value when it reaches a certain value. >2147483647
622	Adaption from the host name, for all DIN Rail devices
2346	Improvement of the device flags to the web service

6.5. Known Errors

N/A

6.6. Validation Documentation

N/A

6.7. Risk Analysis

The Rotronic Monitoring device has been thouroughly tested.

The probability that the bugs persist 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 software and as of such must be defined by the customer.

Rotronic recommend a complete system validation based upon the features used. For software updates, only the new fuctions can be validated, however, this remains the regulated users decision.

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 RMS. Please see the RMS-RA risk assessement for more details.

7. Version V1.0

7.1. Release Details

This was the first release.