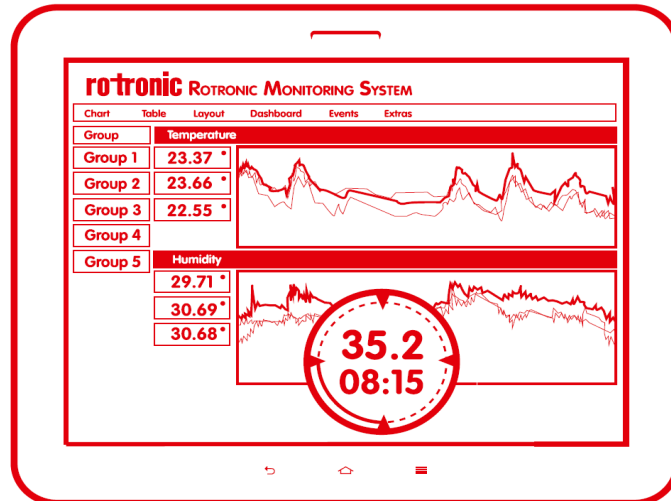


Rotronic Monitoring System RMS V2.1.0.20171



Change Log

1 Approval

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3 Introduction

3.1 Purpose:

The purpose of the change log is so that the end user can see the software changes between the various software versions. Based upon the system life cycle approach and continuous improvement, the end user can define if a software update is required and also the depth of the validation based upon the risk assessment.

3.2 Scope:

This document is limited to the software changes (bug fix, enhanced feature or an additional feature) as the errors know at the time of publishing this document. Please contact Rotronic for a current system overview.

4 Releases

4.1 V1.1.0.16270

MS6 Release date: 30.09.2016.

4.1.1 Changes

ID	Description
	No changes, first validated version

4.1.2 Known Errors

ID	Description
RMS-235	Measurement values older than 31 days will not be archived. <i>Workaround: the measurement values have to be archived in the SQL data base by using an SQL query.</i>
RMS-237	It is possible to inhibit an event in the event table without write permission for the specified group if the user has write permission in another group. <i>Workaround: none</i>

4.2 V1.1.1.17087

MS6 Release date: 31.05.2017.

4.2.1 Changes

ID	Description
RMS-75	Table view: Inhibit groups: possibility to inhibit one or more measuring points at the same time.
RMS-209	Device setup view: Firmware Updates for one or more devices at the same time in one step.
RMS-233	Device setup view: Multi select and edit. New columns in the table.
RMS-293	New device supported: PF5.
RMS-299	Data analysis view: show the MPT Number and a search function.
RMS-300	Events view: Direct links to setup the devices and measuring points.
RMS-302	Events view: improved filter function.
RMS-304	If an inhibited alarm is no longer in alarm mode, the inhibition remains.
RMS-305	Table view: new columns Device ID, Status, Comment Position, Owner
RMS-309	Events view: Inhibition time shown better.
RMS-334	Measuring point setup view: multi select and edit. New columns in the table.
RMS-372	Send the current value when the notification is repeated.
RMS-388	New device supported: wireless ADC logger
RMS-432	New device supported: RMS-Extension

4.2.2 Known Errors

ID	Description
RMS-347	Notification: Work time setting will not be correctly inherited from the parent group. Always the default settings will be used (Mo-Fr 8-17). <i>Solution: Create work time setting for each child group</i>
RMS-525	Events view: System errors cannot be acknowledged. <i>Solution: none to date</i>
RMS-529	Archiving: User is not specified correctly in the Audit Trail <i>Solution: none to date</i>
RMS-580	Archive: Alarm confirmations will not be displayed. (But are saved in the database) <i>Solution: none to date</i>
RMS-590	Adding a device not possible without a user right in the root group. Even if the device should not be added to a child group <i>Solution: Give temporarily user right to the root group</i>
RMS-594	Measure point alarms cannot be saved if the account has a Small account license <i>Solution: Request a professional license at Rotronic</i>
RMS-598	Table view bad formatted and multiple information's in the same cell. Occurs if a measure point is places in more than one group <i>Solution: Place the measure point in only one group</i>

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RMS-608	Notification: Inheritance cannot be switched off for level "error" <i>Solution: Remove first all users in the parent group</i>
RMS-675	Alarm-Scheme and active time: Alarm will be released even if the day is not checked in the active time setting <i>Solution: Check the day and set time from 00:00 to 00:00</i>
RMS-714	Documents of archived measure points cannot be downloaded <i>Solution: none, but the document is still available on the server</i>

4.3 V1.2.0.17292

MS6 Release date: 20.10.2017.

4.3.1 Changes

ID	Description
RMS-76	Archive several measure points at the same time
RMS-245	Database manipulation detection: Detects changes in the database for measure values, events, calibrations and archive.
RMS-246	PDF report validation: The authenticity of an RMS PDF report can be validated
RMS-311	Report templates: create individual templates for data- and event reports
RMS-311	E-Mail reports: create and send reports periodically
RMS-316	Layout background image: Edit size and position
RMS-350	Option: Require enter a message for save a change in the system
RMS-358	New calculated measure points: Sum, difference, product, ratio, average, MKT
RMS-389	Alarm table: PDF/CSV export by using from- to timespan
RMS-402	Validation script: new tests and execution of test for several selected measure points
RMS-430	New System measure points: CPU load, used memory, measure point update count, pending commands, software error count, current user count, page load count, open reminders, open warnings, open alarms, open errors
RMS-469	Data restore also for calculated measure points
RMS-473	Protection from malicious user entry: JavaScript, HTML tags, SQL injection
RMS-497	Data analysis: table view for multiple measure points. Statistic and list of alarms
RMS-517	Display text for logic input (On/Off) can be entered by the user
RMS-531	New calculation: Humidex
RMS-541	New calculation: Trend
RMS-548	New calculation: Airflow
RMS-549	English units for differential pressure and CO2
RMS-589	New measure point types: particle and flow velocity

4.4 V1.3.0.18190

MS6 Release date: 10.07.2018.

4.4.1 Changes

ID	Description
RMS-559	Aw Unit for Humidity measuring points
RMS-874	Inventory report
RMS-880	Group timeout
RMS-919	Server time monitoring
RMS-933	"Pa" unit for pressure measuring point
RMS-1000	Number of decimals user selectable
RMS-869	PT1 Filter measuring point
RMS-871	China SMS provider
RMS-790	Air velocity calculation
RMS-600	User defined view in chart page
RMS-627	Event source column in alarm table
RMS-495	Replace function for converter and converter devices
RMS-667	Load property file for device properties
RMS-711	API function for JSON data download
RMS-717	Undelete function for users
RMS-838	PDF report supports Chinese and Japanese fonts

4.4.2 Bug Fixes

ID	Description
RMS-744	Data gaps for a measuring point can be displayed if "retry download" is selected for multiple data gaps even if the data are available.
RMS-691	Event report shows special characters wrong (äöü)
RMS-706	On the mobile view the units are displayed twice
RMS-802	Server error on calibration if reference value contains a "," instead of a "."
RMS-815	Document view uses the user right "validation" instead of "documents"
RMS-838	PDF Report not working with Chinese/Japanese language
RMS-850	In the alarm E-Mail, the delay time is displayed instead of the alarm limit if a delay time is used.
RMS-853	Login fails with special characters in company name
RMS-873	Display device shows "62" instead of the unit
RMS-877	Login fails with special characters in user name
RMS-949	Calculated measuring points not updated after backfilling of data
RMS-950	"Script not found" error on validation page.

RMS-961	No temperature alarms can be released on server with Chinese operating system (because of the "°" sign).
RMS-966	Counter reset not working correctly on different time zone than UTC
RMS-979	Data table on "Data analysis" view are not showed correctly is multiple measuring points are selected.
RMS-995	Validation error of the event, if an inhibited alarm is released.

4.4.3 Known Errors

ID	Description
RMS-866	Months are wrong in data analysis when selecting date range (always in German)
RMS-1056	By making changes, reason may be requested. But reason is not shown in audit trail
RMS-1059	One device can be added to different RMS-Converters at same time
RMS-1069	Duration of alarms is sometimes wrongly calculated
RMS-1137	PDF report (graphic chart) only allows 50'000 data points
RMS-1146	Deleted users are counted for license limitation
RMS-1148	Notification Setup: Cannot assign user in system group

4.5 V1.3.1.18260

MS6 Release date: 19.09.2018.

4.5.1 Bug Fixes

ID	Description
RMS-1137	PDF report (graphic chart) only allows 50'000 data points
RMS-1146	Deleted users are counted for license limitation
RMS-1148	Notification Setup: Cannot assign user in system group

4.5.2 Known Errors

ID	Description
RMS-866	Months are wrong in data analysis when selecting date range (always in German)
RMS-1056	By making changes, reason may be requested. But reason is not shown in audit trail
RMS-1059	One device can be added to different RMS-Converters at same time
RMS-1069	Duration of alarms is sometimes wrongly calculated

4.6 V1.3.2.19242

MS6 Release date: 03.09.2019.

4.6.1 Bug Fixes

ID	Description
RMS-2469	<p>Alarm time counter (System MPT) does not always reset after 24h.</p> <p>Details: The alarm time counter is a system measuring point. It counts upwards when an alarm is active. The counter should reset at midnight (00:00). The reset does not always take place.</p> <p>Root cause: If the alarm time counter measuring point update takes place after midnight, before the reset check is executed (within a time slot of 2 seconds), then the reset will not work correctly.</p>

4.7 V1.3.3.19301

MS6 Release date: 31.10.2019

4.7.1 Bug Fixes

ID	Description
RMS-2491	SMS and telephone alarm feature.

4.8 V2.0.0.19353

MS6 Release date: 30.09.2019.

4.8.1 New Features

ID	Description
RMS-2259	New software architecture. Details: the RMS software structure has been improved. The main benefits are based upon the scaling for the cloud: <ul style="list-style-type: none">•The system is improved for larger amounts of devices and measuring points.•Stability improvement.

4.8.2 Improvements

ID	Description
RMS-2533	Change gateway concept: <ul style="list-style-type: none">•The average of the last 5 RSSI values is taken.•If one value is missing, the average RSSI value will be reduced by 10.•The gateway will be switched if the difference is $\geq 15\text{dB}$ (or 10dBm if the RSSI $< -90\text{dBm}$).
RMS-2532	Adapted the download commands: <ul style="list-style-type: none">•The download commands will be sent over a period of 3 days. After 3 days a data gap will be created.•The download command will be sent at increasing intervals. The intervals will be doubled until a maximum of 2 hours (ex: 1, 2, 4, 8, 16, 32, 64, 120, 120, 120...).•Within 3 days, the around 40 download trials will happen.
RMS-2534	The RMS-Monitor has been removed from the system.
RMS-2586	The RMS software will work with the latest Google Chrome update (JavaScript).

4.8.3 Bug Fixes

ID	Description
RMS-2389	Typo: "AES Key Refresh" not "AES Key Refeseh".
RMS-2383	Unit missing in PDF reports.
RMS-2294	Property definitions cannot be overwritten.
RMS-2293	Firmware update: "NoPropertyData".

4.9 V2.0.1.20022

MS6 Release date: 22.01.2020.

4.9.1 New Features

ID	Description
RMS-2609	Improved automatic execution of high number of commands.

4.9.2 Bug Fixes

ID	Description
RMS-2610	PDF reports were only working in the enterprise version of the software.
RMS-2620	E-Mail alarms were showing the server time zone and not the user time zone.
RMS-2619	E-Mail chart is attached instead of integrated into the E-Mail.
RMS-2617	The wrong RMS version number is shown in the validation protocol.
RMS-2616	RMS E-Mail account is blocked for 5 minutes when the incorrect password is added.
RMS-2615	Devices added via the RMS-CONVERTER-100 (without onboard memory) generate a data gap event every 29 hours.
RMS-2612	Devices added via the RMS-CONVERTER-100 timeout after initial pairing.
RMS-2453	The repeat actions for an alarm scheme is not working.
RMS-2279	The charts in warning/alarm events are empty.
RMS-2581	When updating RMS firmware, the message no properties exist appears and the firmware update is not possible.
RMS-2586	Java script adaptation for google chrome.
RMS-2414	MPT's appear when selecting E-Mail report receivers.
RMS-2286	T10-00xx selection issues.
RMS-1190	E-Mail sent with delay.
RMS-1082	Calibration reminder switches to 01.01.01.
RMS-1052	Backfill data gap after database issues.
RMS-797	No time out alarm when all devices offline.
RMS-561	Check pending data restore not working after service restart.

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MS6 Release date: 19.06.2020.

4.10.1 New Features

ID	Description
RMS-2693	Only database offline will appear in the audit trail and not all DEV offline.
RMS-2642	Download RMS-ADC device audit trail.

4.10.2 Improvements

ID	Description
RMS-2640	New device: RMS-LOG-D-L.
RMS-2569	Warning when using the replace function.
RMS-2551	Warning when disabling a device.
RMS-2384	Unnecessary software exception events removed from the audit trail.

4.10.3 Bug Fixes

ID	Description
RMS-2739	Alarm scripts - notification wasn't sent.
RMS-2710	Audit trail reports Weekly instead of Daily or Monthly instead of Weekly.
RMS-2702	Group tree out of window.
RMS-2701	Web-Service website setup with https generates a bad link in the E-Mails.
RMS-2688	Calculated MPT data gap bug.
RMS-2623	Display digits count wrong, n-1 digits.
RMS-2614	Software Exception: DbEntityValidationException.
RMS-2613	When no user for notification is selected, the event will be triggered for each repeat interval.
RMS-2611	Data gap retry not working when multiple gaps of the same MPT are selected.
RMS-2568	Data analysis shows not the correct time range. It's always 1-minute missing. if the measurement interval is 1min, same for 10s, there is 10s missing in the report. See RMS-2511 for more details.
RMS-2557	Server time change visible in the cloud audit trail.
RMS-2555	Event report - Start and end time depend on last event and not on the start and end time.
RMS-2552	Delete virtual MPT.
RMS-2516	The table report ends when data is no longer available and not when the start/end time is set.
RMS-2513	Within the event report, long texts are not wrapped.
RMS-2512	Within the reports special characters are not shown correctly.
RMS-2511	Within the reports the two last rows are empty. From is included, till is not included in the time scale.

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RMS-2504	New wireless device: the address is not be suggested automatically by the system.
RMS-2494	The filter function of the alarm table doesn't deliver the right information.
RMS-2481	Data gap in data analysis display although all data is available on the report.
RMS-2473	Time stamp inconsistence in pdf reports.
RMS-2470	Alarm duration counting inconsistencies.
RMS-2465	Inhibit time is shown with wrong format in email.
RMS-2452	RMS-LOG-T30-L/868/915 not recognised.
RMS-2450	MPT information not appearing.
RMS-2448	Diagrams are no longer displayed within the chart view.
RMS-2422	Event reports incomplete.
RMS-2413	Font is not correctly shown in pdf report.
RMS-2406	1 PT100 with the RMS-LOG-T30.
RMS-2386	MPT Groups and User rights not working correctly.
RMS-2375	Instead of a long data gap, many short data gaps (calculated measurement points).
RMS-2342	Dashboard issue: name of the devices changed.
RMS-2332	Chart confused after backfilling.
RMS-2326	Radio address is used from 2 devices.
RMS-2321	Validation Script error when sending E-Mails.
RMS-2315	MLOG-T10 without Sensor wrong date in data analysis
RMS-2282	Number format of measured values inconstantly shown
RMS-2279	The charts in warning/alarms events within the audit trail are empty.
RMS-2278	Issues when displaying alarm limits.
RMS-2224	Database error due to lack of access right.
RMS-1186	Zoom not working correctly in chart view.
RMS-1170	Measurement Point Serial Numbers not updated in table view.
RMS-1163	Problems with encoding for special character "°".
RMS-1162	Alarm limits wrongly displayed in PDF report.
RMS-1161	Wrong device ID in PDF report.
RMS-1141	Gateway pairing stability.
RMS-1118	LastAdjustRefs shows "adjustment deleted" instead of "---".
RMS-1116	Special character in user defined view wrongly displayed.
RMS-1098	Download report not working with Firefox.
RMS-1069	RMS alarms reports and alarm duration problems.
RMS-1056	Reason of the change not listed in audit trail.
RMS-1049	Emails cannot be sent, Test Email working.
RMS-940	"Read out data" remains open on devices without measurement points.
RMS-929	"created on" too early in data report.
RMS-866	Months are wrong in data analysis when selecting date range (always in German).

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RMS-839	If a report generated, there can be some validation errors, without adaption in the database or deleting in database.
RMS-762	PDF Report, Alarm Duration = 0 Measure Values.
RMS-694	Different date formats in the email notification.