

Embedded software 2106532

Universal Data Controller (UDC)

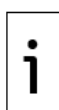
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1 Purpose

These release notes detail new features and modifications, functional changes, and bug fixes made to the UDC software (part number 2106532).



IMPORTANT NOTE: This document includes release information on the most current version as well as several previous versions. The release details for the latest version are always first in the list.

2 Withdrawn software notice

The following customer package versions have been withdrawn and will not be supported. Plan to replace the software with a known working version, or upgrade to the latest version, as indicated in this document.

Table 2-1: Withdrawn packages

Component	Part number	Internal version
Flash	2106532-003	4.2.1-2

3 Latest release

The latest software is available in separate flash and OS packages as listed in table [Table 3-1](#).

Table 3-1: Software included in customer package

Component	Part number	Internal version
Operating System (OS)	2106491-001	1.0.0-4
Flash	2106532-004	4.5.0-6

3.1 Package number 2106532-004 (Flash)

The following new features are available:

- Added Gross Volume calculation to API Liquid application
 - Add Gross Volume registers to current measurement data.
 - Add register based read access to Gross Volume registers.
 - Include Gross Volume Daily and Log Period QTR records.
- Monthly Accumulators for Volumes, Mass, Flowing Pressure and Flowing Temperature add-ed to API Liquid application
 - Add Monthly Accumulator registers to current measurement data.
 - Add register based read access to Monthly Accumulator registers.
- Added a new application: Batch Log
 - User configurable with up to 10 Batch Groups per Batch App and 10 Batch Logs per Batch Group
 - Each Batch Log can have up to 50 numeric values and 20 string values.
 - Supports batch trigger types of hourly, daily, weekly and monthly.
 - Support for register access and remote protocol access (DSID)

3.2 Package number 2106532-003 (Flash)

No new features or enhancements.

3.3 Package number 2106532-002 (Flash)

The following new features have been added to the ABB Totalflow Universal Data Controller (UDC) device.

- Updated PID Controller Application including:
 - Making the application calibration, zero setpoint and shutdown aware
 - Inhibiting manual mode windup
 - Adding options to Controller Reset Mode
 - Adding additional override statistics
- Updated Gas Lift Application including:
 - Adding compressor limits
 - Adding a grouping option
 - Adding a continuous optimization mode
 - Adding multiple optimization options
 - Move the graph pop-up from the GUI screen to a tab
 - Making the Gas Lift application PID aware
 - Improving the usability of the Step Rate Test
- Updated Alarm System Application by removing an internal limitation on addressable registers by changing the register index value from one byte to two bytes
- Repackaged the OSAL libraries with the Totalflow application so that OS upgrade is not required

4 Fixes

4.1 Package number 2106532-004 (Flash)

The following bugs are fixed:

12419 - Plunger does not obtain Arrived state.

12413 - High Priority - Critical Severity - Multiple vulnerabilities can be exploited and result in remote code execution in root context

12392 - New Tube Alarm # 6 has the wrong name: "Density DE Alarm Bit". The correct name should be "Differential Pressure DE Alarm bit". Only fixed when a new tube is instantiated.

12360- Gas Lift Rejects Manual Inject Rate

12351 -SU Coriolis tube Current tab does display Energy Rate (3.73) as zero on no flow.

4.2 Package number 2106532-003 (Flash)

The following bugs are fixed:

12371 - Gas Lift Tubing Length not saved

12360 - Gas Lift Rejects Manual Inject Rate

4.3 Package number 2106532-002 (Flash)

The following bugs are fixed:

12271 - Wedge gas "fixed analysis data" not summing user entered values.

12205 - Loading XRC config causes RMC cpu frequency to change.

12197 - Station App does not correctly show Period Uncorrected Vol for AGA7 tube and LIQUID APP.

12184 - CCRP US-1018501 - Upgrading RMC from flash version -030 to -031 fails when the RMC is running customer config.

12145 - API Liquid app, K factor register (app.7.3) does not update.

12138 - RMC Totalflow.log has grown to 3295 KB. It is logging error twice a minute.

11837 - When adding a new trend and clicking on pre-existing trend, it auto-populates the new trend with all those variables.

11790 - Cannot add xx.xx.xxxxx 9 digit registers to Alarms app.

11642 - CCRP US-983778, Alarm app register app.array.256 changes to app.ar-ray.0.

9153 - Alarm App: Maximum register array size for Input Reg, Thres Reg and Trigger Reg is 255.

8601 - Alarm app only stores index as int8 instead of int16.

5 Known issues and workarounds

None.

6 SHA512 Security Feature

SHA512 is an algorithm used to confirm the integrity of data that is downloaded from a site. ABB is now providing a checksum value for each software package downloaded from the ABB library that allows users to confirm that no data is missing or was changed during the download. A corresponding SHA file is available in the ABB library for all software packages. Please refer to the Software package integrity check instructions (2107014MNAA) for further information on using SHA512.

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