

## **Subject: Release of ProLink® III v4.2 Software**

### **Overview**

This documents the release of new software for the ProLink® III application. The version of this software is 4.2. The build number of this software release is Build #407 Revision 2. Download links for the upgrade-only release can be found on the **ProLink III Updates** web page referenced below.

### **Products Affected**

ProLink III software application.

### **NAMUR NE 53 Rating**

This release is rated at NAMUR NE 53 Level 2.

### **Symptoms**

The following symptoms may appear with previous versions of ProLink III software:

1. For 5700 transmitters, response time setting description strings are inconsistent.
2. For 5700 transmitters, license description strings for Smart Meter Verification (SMV), Professional and Basic, are unclear and inconsistent.
3. For 5700 Ethernet transmitters, users need a way to choose whether a password is required on the local device display to reset, start, and stop totalizers and inventories.
4. For 5700 transmitters, users would like to be able to run a simulated SMV test for the Simulated and Offline connection objects. This helps show others what the SMV Run Test screens look like during presentations and discussions with customers.
5. For 5700 transmitters with Advanced Phase Measurement (APM) version released in 2019, and for the Series 1000 and Series 2000 transmitters with Production Volume Reconciliation (PVR) or Transient Bubble Remediation (TBR), many of the data field names need to be updated to the latest accepted terminology.
6. For 5700 transmitters, 3 new sensor simulation parameters for Drive Gain (reg. 7202), LPOFiltAmp (reg. 7204) and RPOFiltAmp (reg. 7206) are missing from the Sensor Simulation screen.
7. On the Piece Wise Linearization (PWL) screen, edit boxes shown are not large enough to display all required digits after the decimal point of floating point values.
8. For 5700 Configurable I/O transmitters, firmware v2.0 with local display security enabled, the device generates a critical fault if the default password is used. Complete resolution steps for this fault are not being shown in ProLink III software.

9. 1700 transmitters with Chinese display are not supported in ProLink III software.
10. ProLink III Basic software does not support the Commissioning Wizard.
11. For the 5700 FOUNDATION™ Fieldbus v1.1 transmitters, configuration screens for “Integrator Function Block 1” and “Integrator Function Block 2” are not available.
12. On the Pressure Compensation Screen for 5700 transmitters, meters where the sensor has no pressure effect are not properly identified. There should be a message saying, “There is no pressure effect for the <type> sensor,” or something similar.
13. Batching and filling transmitters such as 1500, Filling Mass Transmitter (FMT), and 5700 are not supported consistently across all appropriate configuration screens in ProLink III. Screens, fields and field name strings should be consistent across all of these devices.
14. For the 8800D Vortex Flow Meter v7.2.2 with HART 7, it is not possible to change configuration of device pressure units.
15. For Fork Viscosity Meters (FVM) and all Heavy Fuel Viscosity Meters (HFVM) (register 5139 = 1, 2, 4, or 8) with ETO 32819 installed (register 5005 = 32819), add a configuration item for kinematic viscosity offset (reg. 3633) to the Line Viscosity configuration screen. Also, change the field name “Viscosity Offset” to “Dynamic Viscosity Offset” for clarity.
16. For the latest SMV device firmware, SMV meter factors (inlet and outlet stiffness) and drive gain are missing from the SMV report.
17. For 5700 transmitters, it is possible to set or clear a configuration item to allow resetting totals from the device display, but a similar configuration item is not present for inventories.
18. For Series 1000 and Series 2000 transmitters, printed configuration reports contain an item named Entrained Gas Handling. However, this check box item is calculated from several constituent device data items and should be removed from the printed configuration report.
19. For the 5700 Configurable I/O transmitter with volume flow set to Gas Standard Volume (GSV), the mA Input assignment should allow External Density to be assigned. Currently, this integer code is missing from the list of mA Input choices.
20. For some SMV reports, the y-axis limits are set from -100% to +100% instead of the required – 5% to +5% limits.
21. For the 5700 Configurable I/O transmitter, the “Paper Out/Printer Offline (130)” alert is not being shown.
22. For 5700 transmitters, the Clear Totalizer Log button must be removed from the Totalizer Log screen.
23. The Device Data Capture (DDC) UI screens for various devices and firmware versions must be removed since DDC is no longer supported.
24. The SMV results .csv file is not exporting properly with Dutch regional numeric format settings.
25. For 5700 transmitters, the Lifetime Temp Screen is showing fixed units of degrees Celsius (degC). However, the units should instead track the configured device temperature units.

26. Sometimes, users will not have an installed HART driver, but ProLink III does not show any error message when this occurs and a HART connection is attempted.
27. For the 1700 IS v3.6 transmitter, configuration changes to the mA output unexpectedly return to the upper and lower sensor limits (USL and LSL).
28. For the FMT Profibus transmitter, importing a ProLink II configuration file into ProLink III software can result in the device having incorrectly configured density units.
29. On the Connect screen with HART protocol, change the default master type to Secondary. This will generally work better in the field when a Primary master is already connected.
30. SMV reports for magnetic flow meters are not available in ProLink III Basic software when SMV is licensed in those devices.
31. Help and "Still Need Assistance?" screens do not show the same customer service contact information typically shown in product user manuals.
32. The SMV Field Baseline wizard cannot be used to establish a new field baseline with a 5700 transmitter unless it also has SMV licensed. This is prior as-designed wizard behavior. However, with SMV Basic, the wizard should now allow a baseline to be performed with no current SMV license for 5700 transmitters.
33. When using the SMV Run Test wizard with HART connections, it is possible due to slow HART responses that users might click the Start button more than once. When this happens, the SMV test aborts. After starting an SMV test with HART, users should be prevented from clicking inappropriate UI buttons until the test runs to completion.
34. Insufficient and incomplete error checking is done on the UI when trying to fill in the IP address of a 5700 Ethernet transmitter.
35. For Series 1000 and Series 2000 transmitters, it is not possible to make configuration settings that allow start, stop, or reset of totalizers via digital communication. A new field to "Reset Totalizers via Digital Communications" should be added to the Totalizer Control Methods screen.
36. For Series 1000 and Series 2000 transmitters, assigning the value 250 (=None) to HART burst variable 1 results in loss of HART communication. The value 250 should be disallowed in this context.
37. The Kinematic Viscosity Offset field is missing from the Viscosity screen for the FVM and all variants of the HFVM devices. The missing field should be added.
38. Calibration parameter FD cannot be sent to some of the RFT9739 transmitters (e.g., with v3.8 or v4.1 firmware) using HART protocol connections.
39. When loading a .pcfg configuration file with only a few non-CM parameters present, if concentration is enabled in the device, ProLink III software also attempts to load all of the concentration curve information. This load attempt fails since the data is not in the file.
40. If a read-only .pcfg configuration file is presented to ProLink III software, the file is considered to be invalid. Instead, the read-only file should be loaded like any normal read-write configuration file.

41. For the 5700 Ethernet transmitter, "Lower Range Value" and "Upper Range Value" configuration fields are missing when setting up Channel C on the transmitter and the data source is set to Temperature or External Temperature.
42. For Series 3000 transmitters, paper out detection for an attached printer is not handled properly. In addition, the French "paper out" string translation should be updated for accuracy.
43. When doing an Installation Verification, the bullet strings on screen regarding performing a zero and zero stability check are not correct and should be removed.
44. For the 5700 Configurable I/O transmitter, some configuration changes made on the FO1 screen should close an associated FO2 screen if that screen is no longer applicable. Menus should also be updated. However, closing the FO2 screen and updating the menus is not always being done correctly.
45. For the FMT v4.43 device, SMV is not being supported properly.
46. For Fork Density Meters (FDMs) with a HART connection, the gauges on the ProLink III main screen do not always update properly based on mA output range settings.
47. For 5700 transmitters, it is possible to make configuration settings to start, stop and reset totalizers from the device display. The same functionality should be included for inventories, but it is not present.
48. For 5700 transmitters, users should be able to show/hide the entire Offline menu in the devices.
49. For the 2700 Analog v6.1 transmitter, it is not possible to perform an analog output trim when connected via HART.
50. For the 2700 v8.02 transmitter with PVR enabled, the reference temperature on the PVR screen is displayed as 32F instead of 60F, which is correct and expected.
51. For the 2200 v1.7 transmitter connected with HART protocol, configuration .pcfg files cannot be read and written properly.
52. For the newest version of SMV (Basic and Professional) capable firmware, SMV meter factors (regs. 6371 and 6373) are not present on the SMV report and in the SMV .csv data file. These registers need to be added.
53. On the Transmitter Options screen for Compact Density Meter (CDM), Fork Density Meter (FDM) and Fork Viscosity Meter (FVM), the following 3 options should be shown as mutually exclusive: None, API Referral, and Concentration Measurement.
54. The SMV export data .csv files should be updated to include additional device data, and show that data in a more logical format.
55. For Series 1000 and Series 2000 transmitters with v6.6 or higher firmware and a HART 7 connection, transmitter display variables cannot be changed.
56. For the 820 core processor with two sensors and the Offline connection type, sensor index is not being handled properly. This results in invalid or incorrect data in configuration .pcfg files for this connection type.

57. For HFVM meters, Sensor Time Period Upper and Lower parameters are missing from the ProLink III main screen, and they also can't be selected on the logging and trending screens.
58. In ProLink III configuration .pcfg files, volume flow type must be written to a device before configuration programming is done for outputs like the mA port. There is an ordering problem in the current .pcfg files that can prevent transferring .pcfg data properly to a target device.
59. For 5700 transmitters, ProLink III software sets coil 504 (Save Factory Configuration) while reading device service dump files, which causes any existing factory configuration data to be overwritten without warning.
60. The 9739 MVD transmitter can only be locked using its hardware switch. However, ProLink III software shows UI for this purpose. That UI should be removed and a note shown to users explaining about the hardware switch.
61. With ETO 17467 for Viscosity installed on the 9739 MVD transmitter, configuration for the viscosity application is incomplete. Set up of the differential pressure input is missing.
62. For the 5700 Configurable I/O transmitter, Calorific Value and Energy Flow parameters are missing from the list of available device Display Variables.
63. For appropriate devices, Standard Density of Gas is missing as a parameter for selection on the ProLink III main screen, in logging and trending, and in diagnostic areas.
64. Sometimes when running an SMV test, the progress bar appears to stop at 99% and stays there.
65. When using the Microflex 101-0020 USB RS-485 converter, file transfers from the 5700 transmitter may not complete properly.

## Resolution

All items listed above have been resolved with this new revision of software.

### Details for specific issues:

- Symptom #10: The Commissioning Wizard is now supported in ProLink III Basic per new marketing requirements.
- Symptom #30 **Error! Reference source not found.**: SMV reports are now supported in ProLink III Basic for magnetic flow meters with SMV licensed per new marketing requirements.

## Additional Features

This version of software includes the following changes to device support over previous versions.

- Added support for Micro Motion 4200 v1.1 transmitter firmware.
- Added support for Micro Motion 5700 Ethernet v2.0 transmitter firmware.
- Added support for Micro Motion 5700 Intrinsically Safe Output v1.0 transmitter firmware.
- Added support for Micro Motion 5700 Configurable I/O v3.0 transmitter firmware.

- Added Support for Micro Motion Series 3000 v8.5 transmitter firmware (releasing soon).
- Added Support for Micro Motion 9739 MVD v1.8 transmitter firmware.
- Added Support for Micro Motion FMT-Modbus v2.1 transmitter firmware.
- Added Support for Micro Motion FMT-Profibus v2.1 transmitter firmware.

## **ProLink III Updates**

To update an existing version of ProLink III Professional Software, or to download a new installation of ProLink III Basic Software, go to the 'Software Downloads & Drivers' section of the ProLink III webpage:

[www.emerson.com/ProLink](http://www.emerson.com/ProLink)

There is no change to the purchasing or licensing procedures for ProLink III Professional Software.

**Contact Information**

Product information is available on the internet at: [www.emerson.com](http://www.emerson.com).

Customer Service Phone Numbers:

Micro Motion USA	1-800-522-6277
Micro Motion Europe	31 (0) 318 495 555
Micro Motion Asia	65 6777-8211
Micro Motion UK	44 0870 240 1978
Micro Motion Japan	81 3 5769-6803

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