



Where Automation Connects.

EAFC Manager



June 24, 2022

RELEASE NOTES

Your Feedback Please

We always want you to feel that you made the right decision to use our products. If you have suggestions, comments, compliments or complaints about our products, documentation, or support, please write or call us.

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EAFC Manager Release Notes

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Contents

Your Feedback Please	2
Content Disclaimer	2
Open Source Information	3
 1 Start Here	 5
1.1 About EAFC Manager.....	5
 2 Release Enhancements and Known Issues	 6
 3 Support, Service & Warranty	 10
3.1 Contacting Technical Support.....	10
3.2 Warranty Information	10

1 Start Here

This document highlights the new features, fixes, enhancements, and known issues for EAFC Manager.

1.1 About EAFC Manager

The EAFC Manager software is the configuration, troubleshooting, and reporting utility for the ProSoft Technology's MVI56E-AFC and/or MVI69E-AFC Enhanced Liquid & Gas Flow Computer modules.

2 Release Enhancements and Known Issues

Release Version	Release Date	Feature Enhancements and Known Issues
4.06.001	07-Jun-2022	<ul style="list-style-type: none"> MASC result dictionary section data will now be properly displayed on the MASC configuration form. Stream allocation database grouping and active stream summary Modbus dictionary items will now show correct addresses. Meter archive extended file size will now properly be reflected upon archive configuration change. Microsoft KB5004442 Orifice plate change will now properly display process inputs on first freeze attempt.
4.06.000	11-Mar-2022	<ul style="list-style-type: none"> Aligned with MVI56E-AFC and MVI69E-AFC release 4.06.000 Mass allocation shrinkage calculations. API 20.1 Water cut methods (static, live, and density based). Pressure bias (offset) process input scaling. Meter stream configuration <ul style="list-style-type: none"> Meter stream allocation for up to 16 streams per meter run. Total 64 global streams that can be allocation to all meter runs.
4.05.002	05-May-2020	<ul style="list-style-type: none"> Meter archive configuration validity range correction to support Meter Extended Totalizer Modbus Dictionary Section
4.05.001	05-Feb-2020	<ul style="list-style-type: none"> Added ability to configure duplicate meter archive items.
4.05.000	24-Sep-2019	<ul style="list-style-type: none"> Aligned with MVI56E-AFC and MVI69E-AFC release 4.05.000 Mass heating value in US units changed from MBTU/lb. to BTU/lb. Volumetric heating value in US units changed from MBTU/cf to BTU/cf. Temperature bias (offset) process input scaling. Default meter archive extended file size set to 1440 records. Density process input units addition for g/cm³. Addition of thermal mass meter physical device type. Meter configuration asset tag addition. User preferences added for <ul style="list-style-type: none"> US differential pressure units in inH₂O or hW Analysis molar concentrations in % or fraction Density of gas relative to that of air as specific gravity or relative density

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		<ul style="list-style-type: none"> Transmitter calibration options
4.04.000	12-Sep-2018	<ul style="list-style-type: none"> Aligned with MVI56E-AFC and MVI69E-AFC release 4.04.000. Archive configuration "Reset to default" button has been added. In Modbus Dictionary, indicate "half-long" (word-swapped single 16-bit) quantity by suffixing with "+L" or "+H". Archive Description/Age. Archive Monitor first row ("Age") all black. Previous default calibration report filename is not valid and does not give error. Transmitter calibration grid column widths. "Physical device" drop down list, "V-cone (Rev 3.2)" entry, text extended with "(ISO 5167-5)" to identify the applicable international measurement standard. Archive UDT configuration change. Clearing of meter options (both calculation and control) and stream options, upon saving the project; effect apparent upon reload of project is now corrected.
4.03.000	15-Aug-2018	<ul style="list-style-type: none"> Aligned with MVI56E-AFC release 4.03.000 Extend serial communication speeds with higher baud selections 28800, 38400, 57600, 115200, 230400. Export UDT declaration files (as .L5X) for user-configurable backplane-return and archive-record layouts, importable into the user's Logix project. Densitometer correction factor. Repurpose stream parameter "Water density at 60°F" to "Water salinity" (relevant to high-water products: emulsions, produced/injected water). W&M lock status. Hardware watchdog status. Enhancements necessary for obtaining EU certification: <ul style="list-style-type: none"> Separate "on-error" accumulator. Heating value via ISO 6976, and Wobbe index.

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		<ul style="list-style-type: none"> Alarming enhancements: acknowledgement, pulse fidelity.
4.02.000	2-Oct-2017	<ul style="list-style-type: none"> Aligned with MVI56E-AFC release 4.02.000 Override of relative density (specific gravity) and heating value <ul style="list-style-type: none"> Allows the user to input relative density and heating values instead of using the AGA8-calculated values based on gas analysis data. Added option for AGA3-2012 or AGA3-1992 used in calculations. Physical device selection <ul style="list-style-type: none"> Added the ability to specify the meter type used for a meter run (Example: coriolis, turbine, ultrasonic, etc.) User-specified archive parameters Extended meter factor to differential meter types <ul style="list-style-type: none"> Allows for the use of a meter factor when a differential meter is used and the primary process input is selected as 'flow rate'.
4.01.000	19-Dec-2016	<ul style="list-style-type: none"> Aligned with MVI56E-AFC release 4.01.000 Added features to Transmitter Calibration: <ul style="list-style-type: none"> Recording of As-Found/As-Left values Pass through to PLC of Transmitter Calibration data Allow multiple transmitters in a single session Display frozen values in transmitter calibration window Add meter tag to the calibration report Suffix UTC offset to local reported at date/times Bug fix for transmitter deselection Added Authorized User Database with permissions roles Added Log Event for firmware upgrade for D17 compliance Added new liquid product type of "water" with temperature compensation Added option for liquid volumes to select between Gross Volume and Indicated Volume Added option for "strict compliance with 11.2.2M" for Directive

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		<p>17 compliance</p> <ul style="list-style-type: none">Updated GPA TP-27 (API 11.2.4, 2012 edition)Extended shrinkage factor (SF) to all liquid product typesImplemented Linear meter no-flow cutoff (all product types)Various bug fixes for EAFC Manager interface to module
4.00.000	21-Apr-2016	<ul style="list-style-type: none">Aligned with MVI56E-AFC release 4.00.000AFC Manager does not recognize when communications to the module have been interrupted. User must click Communications > Disconnect Module to change state.All MVI56E-AFC serial ports support 9600 and 19200 baud rates only.

3 Support, Service & Warranty

3.1 Contacting Technical Support

ProSoft Technology, Inc. is committed to providing the most efficient and effective support possible. Before calling, please gather the following information to assist in expediting this process:

- 1 Product Version Number
- 2 System architecture
- 3 Network details

If the issue is hardware related, we will also need information regarding:

- 1 Module configuration and associated ladder files, if any
- 2 Module operation and any unusual behavior
- 3 Configuration/Debug status information
- 4 LED patterns
- 5 Details about the interfaced serial, Ethernet or Fieldbus devices

Note: For technical support calls within the United States, ProSoft's 24/7 after-hours phone support is available for urgent plant-down issues.

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