

Echart Release History

Note: Comments in Black mean new features or capabilities and Red changes mean corrections from previous versions.

Version	Release Date	Changes
1.19	9/15/2006	Support for Absolute/Gauge Transmitter Autodetect feature No longer need user selection for type of transmitter
1.18	7/17/2006	Added support for Bluetooth port Able to read scratch pad registers in report templates Able to use any comm. Port in the local machine (ports 1 to 99)
1.17	3/17/2006	Added support for CF and M3 flow units Added support for Event Status Input Expanded program variable range for 7000 registers
1.16	2/20/2006	Daily Hourly Report was unable to show negative temperature values
1.15	1/20/2006	Support for dual Enron Modbus Timestamp formats
1.14	11/18/2005	Added Support for Rosemount Flow Conditioning Orifice Plate (405C & 1595)
1.13	8/19/2005	Did not accept zero atmosphere pressure need for absolute transmitters Added Absolute Pressure Transmitter Option Support for PID view printing, saving and viewing Modbus registers "Get data not yet collected" Option selects all the different reports automatically Unified HTML view printing and saving for better consistency Changed Diagnostic Icon for Diagnose and Calibrate Icon Allow to use Comm. Ports greater then Comm. 10 Abort Autodetect if unable to open selected Comm. Port Added Calibration Mode and Verification to Diagnostic View
1.12	5/17/2005	Multivariable Status shows failed all the time diagnostic screen
1.11	5/2/2005	Added Daylight Saving Time (DST) Feature Added Steam Table (Added Density of Dry Air Entry) Added Multivariable Connection Status Not reading port info through full config upload only through single port window
1.10	2/15/2005	Improved modem connection including FC version checking
1.9	12/28/2004	Calibration Data Verification was unable to handle invalid user entries, program will lock PGAS Current Month report will timeout on Volume File generation
1.8	11/23/2004	New Orifice Plate Selection through status input V-Cone linearization variables
1.7	10/22/2004	New Modbus Shift, Program Variables and Boolean Statements (Extended Range)

Version 1.6 was unable to download image file

1.6	9/3/2004	Split Configuration screen in smaller dialogs Save Image Version of last online device Support for scheduled auto polling and multiple unit polling Automatic historical data collection for uncollected Month and Daily reports Separate configuration and reports folders Allow for negative numbers on program variables Disable previous calibration entered reading for faster calibration Diagnostic screen on HTML format PID drop down menu is now included in PID View Window for faster operation PGAS report for Current Month (Daily and Hourly options only)
1.5	8/2/2004	Annubar and Verabar primary elements support
1.4	3/12/2004	Missing Audit Code for High and Low limits in Multivariable Audit Trail Multiple Floating Point byte ordering (1 or 2 registers, HI/LO ordering) Increased update speed on diagnostic screen Added Power Fail Date & Time to Audit Trail (used to show time only) Prevents user from quitting in the middle of a calibration sequence
1.3	1/15/2004	Second Alpha coefficient for V-Cone equation New Y Factor selection for V-Cone equation (for Wafer Cone apps) Density Override was cleared after downloading configuration Liquid Units were mixed with gas units on computers before V.6.06.7
1.2	11/10/2003	Reports show gross volume instead of DP when using frequency meter Additional overflow registers for monthly totals (increasing rollover value) CFX file includes pulses instead of DP when using frequency meter DTR, RTS and CTS Flow Control line option in Comm. Port Showing it had 200 audit records when it actually has 100
1.1	10/13/2003	Gas of Liquid Application Selection
1.0.1.1	10/1/2003	Remove Snapshot Menu from main menu-No use after report modifications Second RS-232 Communication Port Add Meter ID, Company Name and Meter Location to all the reports More user-friendly calibration windows Verify report file existence, path and default extension Configuration file stays open when window is closed Saves historical data selections between sessions Able to change default report folder from Historical data window Check for version number to match only features available in the Flow Computer Slotted DP Meter Equation Auxiliary Turbine Snapshot and Historical Registers Program Variable and Auxiliary Turbine Display Assignments Auxiliary Turbine Analog Output Assignment Data not sorted chronologically when capturing large reports

Floating Modbus shift window not showing target addresses correctly (cosmetic)
Problem with .rpt extension added when using the browse option capturing report

1.0.1.0	7/17/2003	Add HTML report templates Get report since data collection feature use meter name as report name Create report file instead of using database records Ability to copy PC time to the flow computer time with a single button Improve Image Download Window Able to download image file without going online Include Modbus Driver Utility-Read/Write Modbus registers New Display Constrast Window Fix Analog Output Calibration Send Update Modbus shift command after configuring Solved Problem with Auto Polling creating Windows Error while getting Daily Report Do not Allow 0 as Modbus ID
1.0.0.18	4/17/2003	Add Display Contrast option in Calibration Menu (This entry is also in the FC configurati Add Multitasking Communications (More responsive interface) Add TCP/Encapsulation Protocol for Ethernet Connections (iNet Radios) Data Missing in configuration file after changes in version 1.0.0.17 Read Version and Application Tag every time the about box is selected (more reliable) Water Factor Default to 1-Previously Net and Energy will show zero by default Added heating value to Meter Data menu for operator use Improved Calibration Verification Menu (multiple entries from the same window) Included Slow Pulse Cut Off timer (in AGA7 equation) Remove Installer from setup to reduce file size. MSI can be downloaded from Dynamic's
1.0.0.17	1/10/2003	Added CFX file creation capability (CFX is a binary historical data file created by Flow-C Added communication status lights (Rx/Tx) on main screen Modified configuration file structure becoming compatible for furture releases Added modem communications (Phonebook and dial up capability) Added Program Variables and Program Variable Tags Flow Coefficient for V-Cone Equation was missing Exporting Configuration to Text File Capability Added Tips to the Main Toolbar Added Time Validation for AutoPolling so it polls even if time entered already passed
1.0.0.16	11/20/2002	Added PID Reset Option PID Diagnostics Screen was not updating values Corrected PID Configuration Download
1.0.0.15	10/2/2002	Problems with the audit trail variable's tags Solved Crystal Reports Engine Issue Added RS484 and Turbine Wiring Drawing
1.0.0.14	9/20/2002	Had problem with Display Assignment after changing it to ComboBox selection type Added flow rate units to the Maximum Graphical Screen Value

1.0.0.13	9/18/2002	<p>Added Flow Extension value to PGAS files</p> <p>Fixed Problem with day start hour for hourly PGAS report</p> <p>Added Hourly Report's Default Bits Description</p> <p>Modified Analog Output assignment window to ComboBox selection</p> <p>Modified Display Assignment to ComboBox selection</p> <p>Modified Pulse/Switch assignment to ComboBox selection</p> <p>Added Floating Point Modbus Shift Data Entry</p>
1.0.0.12	9/9/2002	<p>Was unable to retrieve 31st day in August in the previously month report</p> <p>Added Flow Computer Application tag on about box</p> <p>Was unable to edit Comm. Settings from a window different than diagnostics</p> <p>Added Auto Detect FC</p>
1.0.0.11	7/31/2002	<p>Added Switch Output Diagnostic Capability</p> <p>Fixed issue with multiple open documents/offline-online inconsistencies</p> <p>Jump to Diagnostics Screen automatically when calibration is being done</p> <p>Able to configure device form a view different than diagnostics</p> <p>Added Flow Computers Display Contrast entry</p> <p>Added Scrollbars to the MDI Frame</p> <p>Added DataPacket2-Compresses Hourly Report</p> <p>Be able to Cancel Image Download when device times out</p> <p>Changed Security Codes Windows-Less Confusing</p> <p>Display Entry Units accordingly with the Units Systems selected on the configuration</p> <p>Support Auxiliary Meter-Second Revision</p> <p>Support Metric Units and Auxiliary Meter Units in the Reports</p> <p>Changed Analog Output Selections</p> <p>Changed FC Graphic Setup Window</p> <p>Added Day Start Hour to Day/Month/Prev. Month report</p> <p>Added Positive Number Validation for Flow Equation Entries</p> <p>Included Default Tag names for Multivariable if they are not defined</p> <p>Added RS485/RS232 Port Selection</p> <p>Shows which application is connected with the PC if it's the wrong one</p>
1.0.0.10	7/18/2002	<p>Added Microsoft Windows Installer into the Setup for Win 95/98 Users</p> <p>No differences in the Application</p>
1.0.0.9	7/7/2002	<p>Added N2 and CO2 Mol percentages to Hourly PGAS Reports for recalculations</p>
1.0.0.8	6/19/2002	<p>Fixed Problem Downloading Config. File-It was due to changes in variable definitions</p> <p>"Go Offline" Menu option description was wrong</p> <p>Add Splash window and Dynamic Fluid Logo</p>
1.0.0.7b	6/6/2002	<p>Previous Month Daily Date issue was fixed (data was inconsistent)</p> <p>Modbus Shift Registers data validation was fixed (was unable to enter some valid entrie</p>
1.0.0.7	5/29/2002	<p>Made Timeout and retry communication settings Available to user</p> <p>Added DP unit selection</p>

Added Auxiliary Meter option (modifies gross readings and units)
Internal-Included several variable initializations to eliminate compiler warnings

1.0.0.6	5/7/2002	Added Boolean Statements Display flow computer version DataPacket report retrieval. Improved data retrieval speed Added ReadGroup and Write Group for 7000 Area - Improved Comm. Speed Included PGAS Reports with Daily and Hourly records Improved Idle Window Update so App is faster and more responsive Calibration Update Screen rate decreased to 1 second (more frequent update) Added Frequency indication (Frequency on diagnostics window) Confirmation dialog for Image File Download to prevent User erroneous download Units inconsistency in Snapshot screen were fixed
1.0.0.5	4/22/2002	Added Report Name to captured reports for later viewing and printing Added security codes to device access Added Daily reports short view-Additional summarized way to see daily reports Automatic Polling - Polls up to 100 meters, any report, every n seconds wanted Added the Clear System and Reset CUMM. Totals options Added new Reports: "Short Daily" and "Verification & Calibration" reports Meter Setup & Meter Data Menus were combined for simplicity FC Ports & Modbus ID menus were combined for simplicity
1.0.0.4	4/4/2002	PGAS Reports Improvement - Added Composition for partial recalculations Changed database to include report header (Meter ID, Company, Pipe ID,...) in all reports Included Schedule Automatic Polling Feature Updated Help File Get all the reports requested even if they are zero to avoid problems with the brand new Change "Last Month Data" to "Last Month Daily Data"
1.0.0.3	3/25/2002	Includes PGAS Reports Date/Time Entry with Date/Time picker for more user-friendly entry
1.0.0.2	3/21/2002	Change in report database - Not backward compatible Data fields in database were changed to text to solve Ctime function errors Application works as SDI not as multiple document to avoid user confusion Included Data Validation and Date/Time Entry
1.0.0.1	3/15/2002	First Release

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