



Isco Flowlink® 5 Software

Isco's Flowlink is the premier flow data management software. Flowlink 5's advanced analysis, editing, and reporting, assure continued industry leadership.

Easy instrument configuration

Set up the following Isco instruments — on-site or remotely:

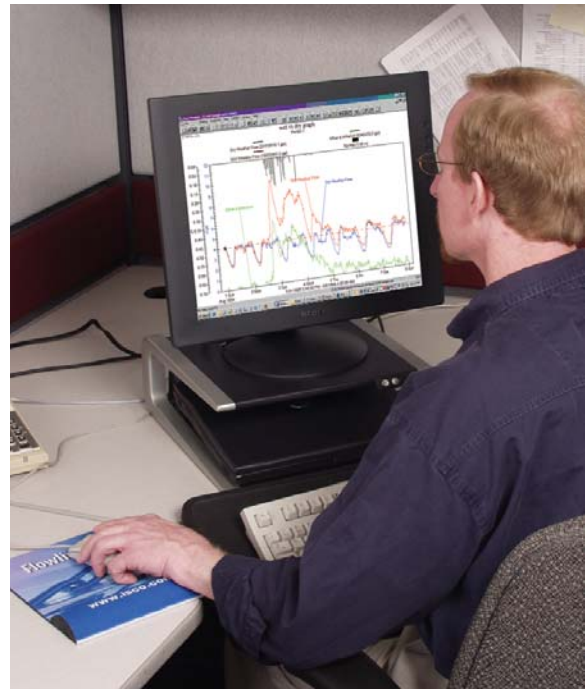
- ▶ 2100 Series Flow Modules
- ▶ 4100 Series Flow Loggers
- ▶ 4200 Series Flow Meters
- ▶ 676 Logging Rain Gauge systems

Enhance battery life by scheduling specific "run times" for communication modules.

Save configuration time by cloning when a flowmeter is replaced, or conditions are similar at another site.

Data handling options

Download data on site to your laptop PC, Isco 581 Rapid Transfer Device (RTD), or Isco 2101 Field Wizard.



Collect data from 2100 Series modules remotely via an Isco 2102 Wireless Module, 2103 Telephone or 2103c Cell Phone Modem.

Collect data from Isco 4200 Series Flow Meters and 6700 Series Samplers with voice modems.

Automate data collection.

Display default graphs immediately after data retrieval to quickly assess site conditions.

Import CSV-formatted data from non-Isco instruments.

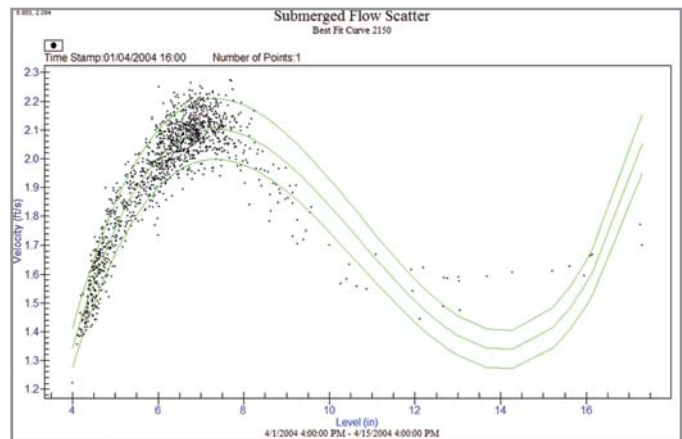
Convert Flowlink 4 files to Flowlink 5.

Archive data to a zipped file on a network drive and back up your database to insure against loss.

Data Presentation

- ▶ Drag and drop data onto graphs and tables.
- ▶ Generate graphs with up to four panes, with multiple data types in each pane.
- ▶ Display rainfall.
- ▶ Display sample events.
- ▶ Display scatter plots. Generate a best-fit curve with limits for analysis.
- ▶ Add text boxes to label events.
- ▶ Generate vertical lines that span all panes for accurate values of different parameters at specific times.
- ▶ Generate horizontal lines to distinguish points outside limits.

Scatter Plot

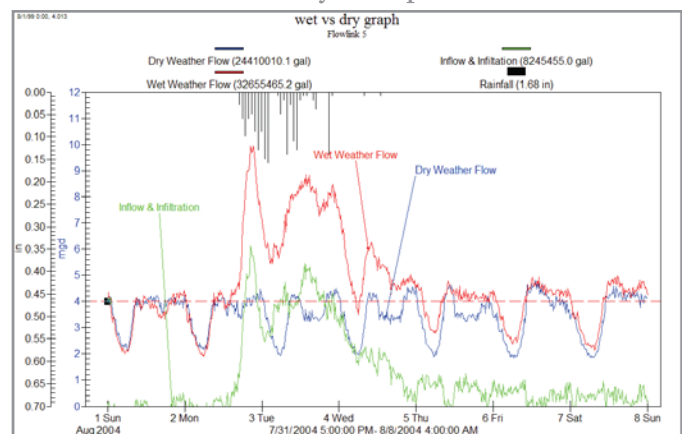


Generate flow channel performance pictures. Add upper and lower limits to indicate fitness of data by a percentage of offset, or test fitness of data using Manning Formula coefficients.

Advanced Data Analysis

- ▶ Calculate average, minimum, maximum, and total accumulated values.
- ▶ Compare data from multiple sites.
- ▶ Use series formulas to know the relation between sites or parameters.
- ▶ Zoom vertically and horizontally.
- ▶ Generate reference curves for wet weather analysis or problem identification.
- ▶ Compare flows using the continuity equation and Manning formula.

Wet vs. Dry Comparison



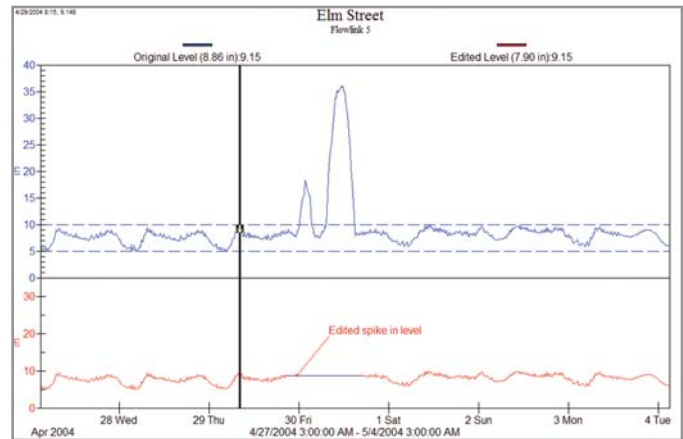
Create reference curves (blue line) for comparisons. Import rain data (inverted from top of graph) to help see the relationship between rainfall and I&I.

Editing Capability

External noise, site conditions, etc, can adversely affect data quality. Also, data from flow meters lacking Isco's exceptional stability can be corrected for calibration or temperature drift.

- ▶ Edit data with constant offset, fixed offset, proportional, time, or auto-correct functions.
- ▶ Edit data values by dragging them to correct values or by selecting multiple data values in a block, then applying corrections.
- ▶ Adjust scatter plot data within limits, or to the centerline of the best fit curve.
- ▶ View changes in a graph or table after editing.
- ▶ Copy, paste, cut, and insert.
- ▶ Show modified data in a different color.

Edited Graph



The erroneous spikes shown above would skew calculations. Simply highlight them and click "auto-correct".

Reporting

- ▶ Include Flowlink graphs and tables in Microsoft Word®, Excel®, and PowerPoint® with object linking and embedding (OLE).
- ▶ Exported into CSV format for analysis in spreadsheet programs. Export graphs and tables in HTML or PDF format.
- ▶ Automatically retrieve data, print graphs and tables, import/export data, and run command-line driven programs.

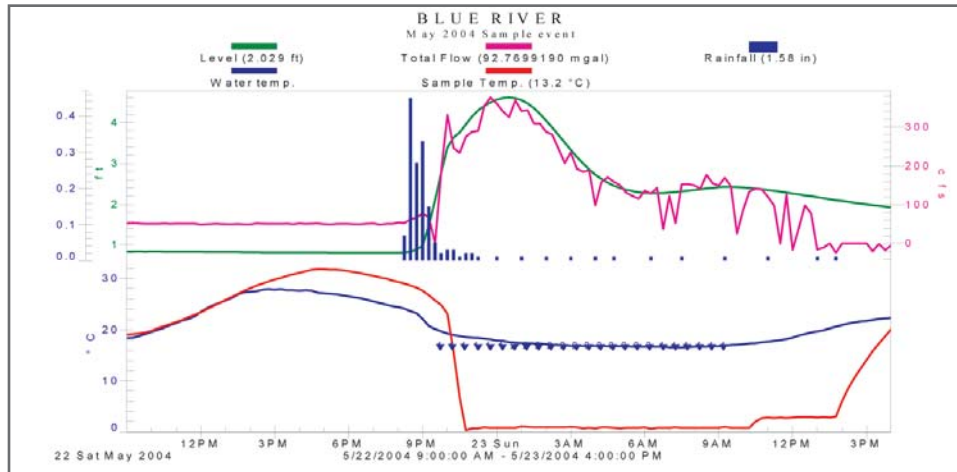
Printable Table

Min/Max/Avg Flow rates					
Flowlink 5					
Date/Time	Average Flow Rate (gpm)	Minimum Flow Rate (gpm)	Time of Minimum Flow Rate	Maximum Flow Rate (gpm)	Time of Maximum Flow Rate
4/16/2004 3:00:00 AM	350	150	3:30:00 AM	480	7:15:00 AM
4/17/2004 3:00:00 AM	360	170	3:30:00 AM	500	9:00:00 AM
4/18/2004 3:00:00 AM	360	170	2:30:00 AM	510	8:45:00 PM
4/19/2004 3:00:00 AM	350	160	3:30:00 AM	510	6:00:00 PM
4/20/2004 3:00:00 AM	360	160	3:45:00 AM	510	8:00:00 PM
4/21/2004 3:00:00 AM	370	160	3:00:00 AM	500	9:00:00 PM
4/22/2004 3:00:00 AM	360	170	3:00:00 AM	500	8:15:00 PM
4/23/2004 3:00:00 AM	370	170	2:30:00 AM	490	7:30:00 PM
4/24/2004 3:00:00 AM	360	160	4:00:00 AM	500	9:15:00 AM
4/25/2004 3:00:00 AM	380	180	4:00:00 AM	490	10:15:00 AM
4/26/2004 3:00:00 AM	360	170	2:45:00 AM	510	8:00:00 PM
4/27/2004 3:00:00 AM	350	160	3:00:00 AM	490	6:45:00 PM
4/28/2004 3:00:00 AM	360	160	3:30:00 AM	490	9:15:00 PM
4/29/2004 3:00:00 AM	400	180	3:15:00 AM	640	12:15:00 AM
Average Flow Rate (gpm)	360	150	4/16/2004	640	4/30/2004
Total			3:30:00 AM	12:15:00 AM	
7357556.6 gal					

Convert graphical data to tabular with one click. Statistical functions are summarized beneath each column. Flowlink scales tables to your printed page.

Sampler Compatibility

Integrate data from Isco's 6700 Series, or Avalanche samplers, with flow meter data for comprehensive analysis and reporting.



Upper pane shows level, flow rate and rainfall. Lower pane shows events (blue triangles) for each sample, with stream water and sample temperatures. Conductivity, pH, dissolved oxygen, etc., can also be displayed.

Flowlink 5 Computer Requirements

Operating System	Microsoft Windows 98, NT, 2000, and XP	Disk Drive	CD ROM
Microprocessor	133 MHz Pentium® or equivalent	Monitor	SVGA, 800 x 600 resolution
RAM	32 Mbytes ^[1] (recommended)	Printer	Color (recommended)
Hard Drive	100 Mbytes free space available for program data ^[2] (recommended)	Communication	Serial or USB ^[3] port with Isco Interrogator Cable, Hayes™ compatible telephone modem

[1] System must meet the minimum hardware requirements for the selected operating system.

[2] Estimate based on a database with 15 sites, each having 3 data sets (e.g., level, velocity, and flow rate), each set having a 15-minute reading interval, with the database archived every 6 months.

[3] Requires customer-supplied USB to RS-232 adapter/converter cable.

NOTE: A Flowlink 3 database can be opened in Flowlink 5 after conversion, using Isco's Site Converter software (included with Flowlink 5).



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