AUTOMATED WATER SAMPLING
Portable Samplers and Accessories

6712C Compact
6712 Full-size
with Jumbo Base

6712 Sequential/Composite
Intelligent sampling with integrated flow and parameter measurement capabilities.
• Rugged ABS plastic exterior with insulated center section and base for preserving samples
• Accurate, repeatable sample volumes
• High-performance peristaltic pump
• Optional Teledyne ISCO 700 series modules

700 Series Plug-in Modules
Teledyne ISCO 700 Series modules add versatility. Monitor flow or pH with the field interchangeable modules that are environmentally sealed. Data is logged by your 6712 series sampler and can be retrieved for analysis.

701 pH and Temperature Module
Accurate pH and temperature monitoring in a single module. Activate your 6712 Sampler at user-selected pH or temperature ranges and save by collecting and analyzing only samples outside normal parameters.

720 Submerged Probe Flow Module
A differential pressure transducer provides accurate measurement where wind, steam, foam, turbulence, or air temperature fluctuations exist—even if the probe gets covered with silt or sand.

730 Bubbler Flow Module
Unaffected by changing stream conditions, the 730 delivers accurate level measurement despite temperature fluctuations and exposure to harsh chemicals.

750 Area Velocity Flow Module
Get accurate measurement where weirs and flumes aren’t practical—or where submerged, full-pipe, surcharged, and reverse flow conditions may occur. No need to estimate channel slope or roughness. Sensor uses patented* Doppler technology to directly measure average flow velocity.

780 Analog Input Module
Add intelligent interpretation of any 4–20 mA signal. Characterize analog signals as flow rate or percentage of full scale. Pace or trigger your 6712 Sampler and store data for retrieval and analysis.

3700 Sequential/Composite
3710 Composite
Durable, economical portables for general purpose and priority pollutant applications.
• Basic programming mode for simple setup
• Extended programming mode with additional features
  – Non-uniform time intervals
  – Multiple samples per bottle
  – Multiple bottles per sample

GLS Composite Sampler
Especially designed for general purpose and priority pollutant applications where a full-size sampler is too large.
• Small and lightweight
• Simplified programming for quick, easy setup
• Two keystroke program recall and one-button program start
AUTOMATED WATER SAMPLING
Refrigerated Samplers

Transportable
Peristaltic Pump Technology
- 12 VDC or 110/220 VAC power
- In-door/out-door use
- Optional mobility cart

Glacier
- Composite sampling (single bottle)
- Single keystroke program recall

Avalanche
- Composite and sequential sampling (14 bottles)
- Intelligent sampling with rain input, SDI-12 interface, and 700 module input for parameter monitoring and triggering

Peristaltic Pump Technology

5800
- Modular design
- Slide out bottle rack

6712FR
- Fiberglass reinforced plastic with UV-resistant gel coat
- Intelligent Sampling with rain input, SDI-12 interface, and 700 module input for parameter monitoring and triggering

Permanent
Vacuum Pump Technology

Permanent

5800 Optima Platinum

5800
- Modular design
- Slide out bottle rack

Optima
- Composite and sequential sampling with 24 bottles

Platinum
- Composite and sequential sampling—wide choice for bottle configurations

Wall Mount
- Volumetric (CVE) sample volume control
- In-door use
- Composite sampling
- No refrigeration

Century
- Volumetric (CVE) and Gravimetric (QLS) sample volume control
- In-door use
- Composite and sequential sampling
OPEN CHANNEL FLOW MEASUREMENT
2100 Series Modular Flow Systems

2110 Ultrasonic Flow Module
Accurate, non-contact liquid level measurement with built-in flow conversion software.
- Measurement technology: Ultrasonic
- Microprocessor-based digital sensor
- Self-tuned power control
- Unique sensor design minimizes “deadband”
- Vertical sensor face avoids condensation problems
- Variable rate data storage

2150 Area Velocity Flow Module
Advanced area velocity technology in modular form.
- Measurement technology: Continuous Wave Doppler
- Microprocessor-based low profile sensor
- Span calibration not required
- No temperature drift
- Automatic gain control
- No “draw down” effect
- Variable rate data storage

2150 EX Area Velocity Flow Module
Baseefa and CSA approved for use in potentially explosive atmospheres.
- Measurement technology: Continuous Wave Doppler

LaserFlow® and LaserFlow® EX
Non-Contact, Sub-Surface Sensors
Remotely measure flow in open channels with non-contact Laser Doppler Velocity technology and non-contact Ultrasonic Level technology.
- Non-contact velocity and level measurement
- Single or multipoint velocity measurement below the liquid’s surface
- No dead band from measurement point
- The non-contact sensor avoids the need of unsafe and time consuming confined space entry for preventive maintenance
- LaserFlow EX for intrinsically safe applications in Class 1, Division 1, ATEX Zone 0 areas

2160 LaserFlow Module
2100 Series modularity with advanced non-contacting laser Doppler technology
- Rugged, submersible enclosure fulfills IP68 enclosure requirements
- The quick-connect sensor can be easily removed and interchanged in the field without requiring recalibration
- Up to four 2100 Series flow modules can be networked by stacking and/or extension cables
- Modbus output interface

Optional hardware is available for wall, in-pipe, and floor mounting.
Gather data with cell phone speed and convenience.

The 2103Ci and 2103Gi Modem modules enable remote two-way dial-up communication with 2100 Series instruments via cell phone modem and your desktop computer, equipped with Teledyne ISCO Flowlink software.

2103Ci Cellular Modem Module
- Field instrument connectivity via internet
- Gather data with cell phone speed and convenience
- LTE

2103Gi GSM Cellular Modem Module
- Field instrument connectivity via internet
- Remote downloading from 2100 Modules
- GSM, GPRS

2105 Interface Module
An advanced interface and communication device. The 2105 integrates multiple field instruments and provides a common platform for logging and remote communication. Teledyne ISCO 2100 Series flow modules, pulse Doppler flowmeters, and rain gauges are directly compatible. It can also interface with non-Teledyne ISCO instruments that have SDI-12 or Modbus output. Additional inputs (4–20 mA, etc.) are possible using readily available aftermarket converters. The 2105 will monitor recorded data and take intelligent action, such as sampler enabling and multiple alarm generation based on user-defined conditions. Features include a built-in cell phone modem and remote or online data access.

LTE, GSM, GPRS communication options are available.

accQlink Remote Data System
The accQlink is an Industrial Internet-of-Things (IIoT) system for the Water and Wastewater Industries. It provides a modular and flexible remote data acquisition solution.

The accQlink can accept inputs from sensors that have RS232, RS485, SDI-12, Analog, and/or Contact output. The accQlink is a robust device that autonomously operates in the field using battery, solar, or permanent power sources. It collects data from different types of sensors, transmits securely, and stores the cloud server and/or customer server. Data can also be integrated into SCADA system, modeling software, business intelligence platform, Teledyne ISCO Flowlink Pro, or other software.

2108 Analog Output
- 4–20 mA output from 2100 Series for monitoring and control
- Easy interface with SCADA/DCS and other secondary systems

Signature® Flowmeter
Highly flexible monitoring platform, adapting right along with your current need and any future changes in your monitoring requirements.
- Cost effective and easy installation with simple programming and interchangeable sensors
- Integration with multiple input, output and communications options
- Provides a common data recording, reporting and communication platform for multiple parameters
- Easy data retrieval options

Simplified Plant Integration
Acting as a system hub, the Signature records and transmits data, generates reports, and takes intelligent action in response to multiple simultaneous inputs, communicating with SCADA systems using RS-485 Modbus ASCII or RTU, or optional 4–20 mA analog. With a diverse array of possible inputs and an industry-standard output, the Signature is a one-stop access point for process monitoring and control.

The Teledyne ISCO Environmental Network—TIENet™—is key to the Signature flowmeter’s flexibility. The Signature supports multiple TIENet devices to monitor one or more channels with multiple, redundant, or alternate technologies, without hardware or firmware changes. This network’s intelligent design minimizes cabling and conduit costs through the use of TIENet expansion boxes, common connectors, and efficient cable configurations.

In addition to TIENet devices, the Signature also accepts SDI-12 and Modbus ASCII/RTU inputs.
VELOCITY PROFILING FLOWMETERS

accQpulse™ Velocity Profiler

The accQpulse Velocity Profiler brings unparalleled precision and accuracy to flow rate measurement in many sizes of pipes and open channels. Its unique ability to measure velocity at multiple points makes it suitable for most applications including sites with non-uniform, rapidly changing, near zero, zero, or reverse flow conditions. These applications include: wastewater collection systems, billing, combined sewer systems and outfalls, wastewater treatment facilities, irrigation canals, industrial discharges, and stormwater conveyance and outfalls.

ADFM® Hot Tap
Insertion Flowmeter

For velocity profiling in full pipes 18 inches (0.4 m) to 9 feet (2.7 m) diameter. Can be installed while a pipe is still fully pressurized and in service—avoiding operation interruptions.

- Accurate measurement in difficult sites
- Industry-standard two-inch (50 mm) tap

Horizontal ADFM® Flowmeter (H-ADFM)

Velocity profiling measurement for channel widths of 10 feet (3.0 meters) or more.

- Accurate in low velocities and complex flows
- Horizontally-looking redundant velocity sensors
- Upward-looking depth sensor

accQrate Hybrid Ultrasonic Flowmeter

Measuring fluid flow in virtually any fluid in which sound waves can travel, the accQrate is considered “hybrid” because they can measure fluid flow using either the Doppler or Transit Time methods. Ultrasonic sound transducers are non-intrusive and clamped to the outside of the pipe wall and include no moving parts.

- Selectable Doppler or Transit Time operating mode
- Custom quality metric algorithms and DSP technology ensures reliable, high accuracy measurements
- Quick and easy clamp-on transducer installation
Flowlink and Flowlink LE
Analyze data, conduct advanced studies, and generate sophisticated reports.
Set up and retrieve data from these Teledyne ISCO instruments:
• 2100 Series Flow Modules
• Signature Flowmeter
• 4200 Series Flowmeters
• ADFM Pro20 & accQmin Flow Loggers
• 6712 Samplers and Avalanche, with 700 Series Modules and/or AQ700 Multi-parameter Sondes
• 676 Rain Gauge Logger

Flowlink Pro
A server/client package for municipalities and service providers.
Facilitates management of multi-site wastewater and flow measurement networks.

Try Before you Buy......
Evaluate Flowlink 5.1 software at no cost to you. Contact your Teledyne ISCO representative for a 45-day demonstration license, part number 68-2540-202. Rental options are available for long-term evaluations.

Flowlink Global
Flowlink Global is a web based application to monitor and service sites in your Flowlink Pro database. Flowlink Global provides an easy to access portal to sort, assemble, organize, review, report and export site and device data, GIS mapping, and a dashboard for quick view of site conditions and alarms—all the features that field crews need on the go.

3010 Flow Transmitter
Dependable flow measurement and data transmission. Proven accurate under the toughest conditions.
• Built-in level-to-flow-rate conversions
• Backlit LCD
• Sampler interface
• Analog, digital, and relay outputs
674 Rain Gauge
The Teledyne ISCO 674 Rain Gauge connects directly to 6712 Series Samplers and 4200 Flowmeters to log rainfall along with sampler and flow data. Our 676 Logging System records rainfall at sites where no sampler or flowmeter is deployed.

- Tipping bucket mechanism with jeweled pivot for maximum accuracy

581 Rapid Transfer Device (RTD)
A handy plug-in alternative to using notebook computers in the field.
Retrieve data from these instruments:
- 6712 Samplers
- 4200 Flowmeters

Power Products
Rugged, reliable batteries and chargers for environmental monitoring applications.

Open Channel Flow Measurement Handbook
An essential and extensive resource for professionals who deal with open channel flow.
More than 500 pages of comprehensive information, including standard discharge tables for a wide variety of primary devices.
For a free online version visit www.teledyneisco.com

Street Level Tools
Minimize or eliminate manhole entry.
Versatile accessories that allow a single worker to quickly and safely insert and remove a variety of sensors in manholes as deep as 5 meters.

Worldwide Sales and Service
Friendly, knowledgeable help is available from Teledyne ISCO worldwide. Phone, Fax, or E-mail us today to arrange for a consultation or demonstration.

Special Applications
We can provide creative solutions for almost any need, from consultation to unique hardware adaptations.

Rental
Contact Teledyne ISCO rental for competitive rates and fast delivery when instruments are needed for short-term projects.

For more information on these and other Teledyne ISCO Water and Wastewater Products, visit our website at www.TeledyneISCO.com