



**TELEDYNE ISCO**  
Everywhere you look™



# 5800

SEQUENTIAL/COMPOSITE  
REFRIGERATED SAMPLER

# Reliable Stationary Sampling, Where You Need It!

The 5800 Refrigerated Sampler is Teledyne ISCO's answer to the rigorous demands of waste water sampling.

## Applications:

- Wastewater treatment plants
- Industrial pretreatment
- Influent and effluent sampling

## Standard Features:

- Composite or sequential sampling
- Operating range of -20 to 120 °F (-29 to 49 °C), without additional heaters
- Four digital alarm outputs
- 4-20 mA and DC pulse flowmeter input
- Powerful compressor delivers energy efficient, high-performance cooling
- Four stored programs
- Lifting handles for easy installation

User friendly controls, intuitive design and Teledyne ISCO's dedication to quality make the 5800 Refrigerated Sampler the solution for your stationary sampling needs. Rugged enough to withstand extreme conditions, accurate enough for use in every municipal and industrial wastewater application.

The 5800 sampler uses proven peristaltic pump technology for superior performance and volume accuracy.



## ALARM NOTIFICATIONS

The 5800 sampler comes with four remote digital alarms to alert you when the sampling event has started or stopped and will notify you if any errors occur during an event.

The controller actively regulates and displays sample compartment temperature and logs a 24-hour summary to confirm proper sample cooling and maintain sample viability. The sample collection is tailored to your needs through programmable time or flow parameters, program pauses and resumes and an automatic re-run mode.

## FLOW PATH AND TUBING MAINTENANCE

Pump tubing can be replaced without tools. The safety interlock cuts power whenever the pump band is unlocked, preventing any accidents while maintaining, repairing or changing tubes. Heat resistors on the control panel keep condensation from developing on the circuit board, eliminating the need for desiccant and desiccant maintenance.



Pump Tubing Bands

### Pump Tubing Bands

Pump tubing bands keep the tubing in place and ensure precision performance and consistent sample volume delivery.

### Pump Revolution Counter

High sample volume accuracy is achieved with the pump revolution counter. (USEPA recommended live velocity of at least 2ft/s [0.6m/s], even at head heights up to 25ft. [7.6m]).



Liquid Detector

### Liquid Detector

The liquid detector notifies the controller when liquid is present for precise line rinsing and elimination of missed samples.



## Extreme Environments? No Problem!

### TEMPERATURE CONTROL

Viable samples are maintained in the temperature regulated interior. The double walled design is filled with two inches of insulation. Paired with a 1/6 HP high efficiency compressor, the combination keeps samples cool in hot, humid conditions and the interior heaters prevent the sample from freezing in cold conditions.



### CORROSION PROTECTION

To ensure the long life and reliability of the sampler, corrosion protection is a high priority. The refrigerator's condenser and evaporator coils are made of stainless steel, then electro- and powder coated. As an additional measure, a powder-coated stainless-steel protective grill is installed to limit rainwater accumulation and further protect the sampler in corrosive environments.

### ALL WEATHER

The 5800's UV protection ensures product longevity and reliability, while the tough double-wall linear low-density polyethylene (LLDPE) construction is designed to withstand harsh outdoor environments without requiring a protective enclosure. The optional pump housing heater allows for uninterrupted sampling in the winter months.



## Programming Options

**CONTINUOUS SAMPLING** for compliance monitoring. Samples can be regularly retrieved and replaced with no need to restart the program routine.

**PAUSE & RESUME** for schedule breaks in the sample routine. This can be used to monitor businesses that have regular intervals of down time. The sampler can be programmed to pause at the end of the workday and resume the next morning.

**AUTO-RERUN** restarts the program at the same time each day. Provides accurate daily comparisons based on the time the samples are taken.

## Service Made Simple

Maintenance for the 5800 has been simplified by a self-diagnostic system and built-in alarms. The sampler notifies you when it needs regular maintenance or more involved repairs. Modular components and easy access compartments simplify servicing in the field and Teledyne ISCO technicians are always available to solve any complication or problem that arises.



## Bottle Options

The 5800 sampler offers different glass and plastic bottle configurations to meet various sampling needs. These options include:

- Configurations to accommodate 1, 4, or 24 bottles.
- Composite bottles for compliance monitoring
- Discrete sampling for process control



4700 Superior Street, Lincoln, NE 68504 USA  
Tel: (402) 464-0231 • USA & Canada: (800) 228-4373 • Fax: (402) 465-3022  
[teledyneisco.com](http://teledyneisco.com)

*Teledyne ISCO is continually improving its products and reserves the right to change specifications without notice.*