

# SENSIVATE Post-Column Reactor



## Sensitive Post-Column Derivatization at an Economical Price

The ANALYTICAL Sensivate represents a new level in post-column performance, size, and cost. Based on proven pump technology combined with a unique reactor design and disposable heating blocks, you can now achieve post-column derivitization with great performance at an economical price. Either add Sensivate to your existing LC, or use a complete ANALYTICAL HPLC-Post-Column system.

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**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## Applications:

Carbamates by OPA

Glyphosates by OPA

Aflatoxin by iodine

Amino acids by OPA

Amino acids by ninhydrin



Pesticides



Herbicides



Aflatoxins

## Features:

- \* Fast & easy setup:
  - One inlet connection (from column)
  - One outlet connection (to detector)
- \* Modular:
  - 1 or 2 reactors (1 or 2 heated)
  - 1 or 2 pumps
- \* Proven pump technology with self-flush to improve seal life
- \* Pulse damper for reduced pulsation
- \* Reduced number of connections minimizes leaks
- \* All connections accessible from front panel
- \* Front panel displays each reagent's flow, pressure, set, and actual temperature
- \* Pump flow and reactor temperature settable from front panel or RS232
- \* Upper/lower pressure and temperature limits, and system shutdown relay
- \* Modular cartridge reactor, 2 fluid connections, and one hold-down to change volume
- \* Disposable reactor cartridges
- \* Reactor designed to reduce band broadening—not just a coil
- \* All PEEK fluid path

## Reactor Features

Continuous loop, fully sealed

Multi-directional path for effective mixing

Interactive front keypad control with digital display

Temperature set point

Temperature display (oC or oF)

Ready light

## Reactor Specification

Volume accuracy	±5%
Temperature Operating Range	10° C above ambient to 150° C
Temp. Accuracy	± 2° C over entire range (outlet fluid temperature)
Temp. Repeatability	± 1° C.
Safety Cutoff Temperature	160° C
Stabilizing Time	30 minutes to 150° C for "Ready" indication
Input	RS-232 Interface for remote control and status monitoring

## Pump Features

- Automatic piston wash (significantly improves seal life)
- Stepper motor drive, with electronic fast refill via flag and sensor
- Dual check valves (inlet & outlet) – ruby ball, sapphire seat
- Prime-Purge Valve (PEEK)
- Pulse Dampener (PEEK)
- Outlet Filter (0.5 µ glass frit)
- Back Pressure Coil for proper Pulse Dampener operation (approx. 1000 psi @ 1.0 mL/min)
- Pressure Transducer (isolated in Pulse Dampener)
- Interactive front keypad with digital read-out: Flow rate set points Pressure readout Set upper/lower pressure limit

## Pump Specification

Flow rate	0.01 – 2.5 mL/min.
Pressure	0-2500 psi (172 bar) (upper limit limited by firmware)
Flow Precision	< 0.5% RSD
Flow Accuracy	± 2% from set point
Materials	All-PEEK fluid path, including pump heads
Input	RS-232 Interface for remote control and status monitoring
Power	120/230 Vac; 50/60 Hz



## ►► Regulatory compliances



## ►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## ►► Reach us @




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