

- Compact design
- Powered directly from USB connection to instrument PC
- Easy plug and play operation

Thermo Scientific SRS Pro Solvent Recycling System

Recycle solvent in isocratic methods



Reducing Consumption

The Thermo Scientific SRS Pro solvent recycling system can reduce mobile phase consumption by up to 90% by redirecting untainted mobile phase to the solvent reservoir during isocratic HPLC operation.

With a modern, compact design and innovative features, our SRS Pro brings a fresh approach solvent recycling. No power adapter is required as the solvent saver is powered directly from the chromatography data system PC through a USB connection.

Easy to use software is provided to configure the system parameters, and also includes on-line monitoring and audit trail facilities.

Analog input allows unipolar or bipolar operation of the device within a range of $\pm 1V$ with an analog-to-digital converter facilitating further evaluation by the built-in processor.

TTL/contact closure for the device can be configured as start, auto-zero or valve position control input.

Operational Principle

The SRS Pro continuously monitors the output signal of the chromatographic detector, recycling the mobile phase to the solvent reservoir when the baseline is below a certain preset threshold. Operation of the SRS Pro is illustrated in Figure 1.

If the input signal level exceeds this threshold value, the SRS Pro redirects the eluent flow to waste (Figure 1a), taking account of the transport time from the detector to the switching valve.

When the signal returns below the threshold (Figure 1b), the SRS Pro again waits for the transport delay and then switches the mobile phase back to the reservoir.

Autosampler injection marker connected to the SRS Pro may ensure the zeroing of signal input at the moment of injection.

The SRS Pro is designed to recycle the mobile phase only if switched on. The normal position of the 3-way valve is waste. Therefore, in case of power failure the valve remains in the waste position and the mobile phase in the reservoir remains uncontaminated.

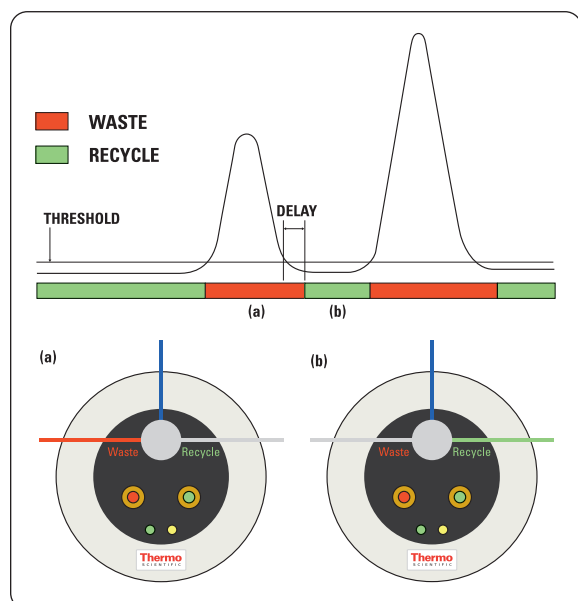


Figure 1: SRS Pro Operation

Thermo Scientific SRS Pro

- Powered from PC USB port
- Input range $\pm 1V$, optimized for “integrator” detector output
- 12 bit analog-to-digital converter
- 1 Hz data rate
- LED indication of WASTE/RECYCLE positions
- Manual WASTE/RECYCLE control
- User configurable TTL/contact closure input
- Compatible with any HPLC detector
- Wetted material: PEEK™
- Connection: ¼-28 flat bottom
- Maximum pressure: 30 psi/0,2 MPa
- Only two operating parameters – Threshold, Transport Delay
- Easy plug and play installation
- Drivers and software included

Computer Requirements

Personal computer (data system) running Microsoft® Windows® 98/2000/XP/Vista™ (32) with one free USB port.

Ordering Information

Description	Part Number
Thermo Scientific SRS Pro	66001-001



For more information, visit the **Chromatography Resource Center** at www.thermo.com/acetonitrile

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