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 INSTRUMENTELLE ANALYTIK

Komplettlösungen HPLC & Photometrie

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 HPLC
 SOFTWARE
 PHOTOMETRIE

HPLC Autosampler S5200

The sample injection system to satisfy maximum requirements

- High sample capacity
- Excellent precision and linearity with variable injection volumes
- Optimum programmability to meet different application requirements
- Configurable from routine applications to multistage derivatisations
- Optional Peltier thermostating of the sample chamber



Description

The S5200 sample injection system allows you to use your HPLC system round the clock thus significantly increasing efficiency in your laboratory.

The S5200 sampler solves every task, whether simple and precise sample injection of sample series in the routine or changing injection volumes to determine trace contaminants alongside high analyte concentrations.

The high sample capacity, 120 samples, in two removable racks permits full use of the hours overnight, even with fast separations using modern columns. The robotic arm, programmable in the X-Y-Z directions, in combination with the finely staged syringe drive, is the guarantee for high precision. This design also allows for complex multistage derivatisation steps, whereby up to 3 reagents can be added and mixed.

Maximum Dosing Precision and Accuracy

Finely tuned stepper motors, together with Swiss precision syringes, guarantee maximum accuracy and precision of sample injection. Adjustable syringe speeds ensure the same high precision even for viscous samples.

Negligible cross-contamination

The washing of the complete injection system is carried out using a separate wash fluid, which washes the sample needle, injection port and the capillary tubing. Wash steps can be programmed to occur before and after injection as well as between derivatisation stages.

Optimum Configurations for your Requirements

Should you use the sampler only for automating a standard application then the basic version with loop filling will meet these needs completely. For changing applications with different injection volumes the variable volume version is available, whereby the standard syringe covers a range from 1 μ l up to 120 μ l. Additional syringes, sample loops and capillary sets are available to cover other volumes.

Thermostating required ?

The samples can be cooled or heated using the thermostat option, here the sample chamber is maintained at a temperature between +4 °C and +70 °C. The stainless steel sample racks ensure rapid heat transfer from the sample chamber to the sample vial.

Metal-free Version available

Should you need to analyse biologically active samples then a metal-free version is available where all capillaries and the injection valve are made in PTFE or PEEK material.

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Specifications:

Sample racks

2 racks in stainless steel for up to 60 standard 1.5 ml sample vials each

Sample access

X-Y-Z robotic control of the sample needle using stepper motors

Dosing

Dosing syringe with finely tuned stepper motor

Available syringes

Standard: 500 μ l glass syringe, others available on request

Injection modes

Loop filling (in all versions)
Partial loop filling (in versions with variable injection volumes)

Sample loops

Standard: 200 μ l
20 μ l, 50 μ l, 100 μ l and 500 μ l also available

Injection valve

6-port 2-position valve, electrically driven

Precision

RSD < 1% for 10 μ l, variable injection volume (typically 0.5%)

Control

Via RS232 from the Geminix Data System or via 10 internal analysis and wash programs

Power Supply

110 - 240 V, 50 - 60 Hz

Dimensions, Weight

300 x 445 x 415 mm (W x H x D)
20 kg

Ordering Information

S5200

Basic Autosampler S5200
2 x 60 samples in 2 racks, loop filling

S5200-C

Basic Autosampler S5200
2 x 60 samples in 2 racks, loop filling, including sample thermostating

S5200-CI

Basic Autosampler S5200
2 x 60 samples in 2 racks, loop filling, including sample thermostating PEEK version

S5200-V

Basic Autosampler S5200
2 x 60 samples in 2 racks, variable injection volume

S5200-VC

Basic Autosampler S5200
2 x 60 samples in 2 racks, variable injection volume, including sample thermostating

S5200-VC1

Basic Autosampler S5200
2 x 60 samples in 2 racks, variable injection volume, including sample thermostating PEEK version

S5200-P

Preparative Autosampler S5200
2 x 24 samples in 2 racks, loop filling

S5200-CP

Preparative Autosampler S5200
2 x 24 samples in 2 racks, loop filling, including sample thermostating

S5200-VP

Preparative Autosampler S5200
2 x 24 samples in 2 racks, variable injection volume

Goebel Instrumentelle Analytik GmbH

Mainburger Str. 8
D-84072 Au i.d. Hallertau
Germany

Tel.: +49 / (0) 87 52 / 86 708 - 0
Fax: +49 / (0) 87 52 / 86 708 - 20
WEB: www.goebel-analytik.de
E-Mail: analytik@goebel-analytik.de