

Auto Sampler SAM 2.4



Technical specifications:

Driving distances:

Main-axis: 340 mm

Axis of leg: 110 mm

Axis of lifting: 165 mm

injector piston-syringe: 70 mm

Precision:

0,25 mm 0,03 mm 0,15 mm 0,15 mm

Drive of syringe: Adaption of

syringes from 10 µl up to 500 µl

Working area: Several racks for
cylindric sample-vessels

Communication:

RS232-interface for control unit

(for instance PC)

RS232-interface for external pipettor

Main power:

90 - 260 V AC 50/60 Hz

Optional: Stirring function for

topical sample position, anyhow the

external position is also within reach

(injector head) outside of the rack

Dimensions: (W x D x H)

510 mm x 280 mm x 460 mm

Mass: 9 kg

Design: customized

Brief description:

- position of the injector head in 3 directions with powerful drives and with a very high precision
- further syringe-drive for pipetting, diluting and dispensing of liquid samples
- transfer of series of samples into injection heads of analysers
- piercing of septa in snap caps of vessels
- possibility of adaption of several syringes for processing from 10 up to 500 µl
- capacity up to 112 vessels 2 ml or 60 vessels 9 ml in the working area of the rack
- stirring of the topical sample vessel through moving a magnetic drive under the working area of the rack
- arrangement of a rinsing position, and special positions for chemicals
- possibility for programming of customized cycles for movement and pipetting by using of a customized interface record - Interface commands can be adapted
- variable design of the device and possibility for adaption to several applications

- For even more precision of the drives in special applications it is possible to use 0,9°- stepping motors.
- Customized adaption of geometry is possible!
- External area to transfer the samples into the injection head of an analytical device

For communication you can use an IBM-compatible PC with interface RS232.

The interface commands make it possible, that the user is able to control the whole movement of the drives external. He can arrange all required details. That refers to the main-axis, the axis of leg, the axis of lifting injector, the axis of lifting piston syringe and also the drive for stirring. For every drive the user has to set the stepping direction, the stepping quantity and drive-speed. That is also valid for the number of revolution of the stirrer. The internal controller of the device is arranging the acceleration and the retardation of the drives. Also an external pipetting device can be controlled with the interface connector of the auto sampler.

Tel.: +49 (0) 36 77 - 46 12 - 0

info@etg-ilmenau.de

www.etg-ilmenau.de