

### Technical Parameters FIA Nexus

- two-loop injection valve (V<sub>min</sub> = 18 µl) (2 measuring ranges)
- pump(s) for carrier / reagents 6-channel, step-motor (long life)
- pump channel flow rate 0.2... 3 ml / min (adjustable in 9 steps as well as by pump tube change)
- reagent consumption 0.4 ... 3 ml / determination
- photometer mit 2-chip-sensor for maximum signal stability
- wavelength range 400... 950 nm
- wavelength selection interference filter
- measuring range 0...2 A.U.E  
(including blank compensation up to 0.5 A.U.)
- compensation of sample colour / turbidity analogous to DIN EN 1189  
(some analysis methods eliminate such interferences by themselves)
- reproducibility typical ≤ 1 % C.V.
- method change time < 10 min (relevant for FIAcompact only)
- multichannel parallel measurement
- inline digestion available
- increased sensitivity through enrichment procedures

### Operation

- Windows-Software FIAstudio, also used for acquisition, processing, management, and archiving of the measurement data
- connection to the FIA system via serial interface RS 232 or USB
- calibration with up to 10 standards using linear or polynomial (2<sup>nd</sup> degree) regression
- control samples are freely insertable
- user-ready analytical methods (method units, method control file)
- methods are freely programmable (for method development / adaptation)
- storage of the method control file in the PC (software FIAstudio)

### Autosampler

- single channel sample pump (6.0 ml/min) (low sample consumption)
- several tray variants ( 89 x 6 ml, 53 x 16 ml, 36 x 30ml)
- integrated dilutor for automated dilutions from off-range samples
- stirring function at the sampling position (optional)
- sample positioning variable (random access)
- position for dilution (1 : 5 or 1 : 10) and rinsing

### Electrical connection

- mains voltage 110/230 VAC ± 10 % , 50/60 Hz
- power consumption 170 W

### Dimensions

height 362mm      depth 490mm      width 171mm      with digestion 225mm  
weight              6,5kg                      with digestion 10,5kg