Software FIAStudio

Functions

- Control of the FIA system
- Data acquisition of the FIA channels
- Presentation and evaluation of the measurement data
- Creation of result protocols of measurement series
- Data export and data archiving

The FIA system by ***MLE*** is controlled by the Windows-based **FIAStudio** software developed by **Dr. Herbert Steiner Consulting**.

Control of the FIA system

The FIA system can consist of one or more channels. The control and administration of the FIA system is organized by the **FIAStudio** software. This software enables the system to be set up and analytical methods complete with start-up and shutdown routines to be created.

FIAStudio also manages and controls the autosampler with dilutor and organises the occupancy of the sample tray with standards, control samples and samples.

The software modules

- **FIAStudio sample preparation** for sample pre-dilution and standard preparation
- **FIAStudio PeakInspector** as a quality assurance module for checking the measurements
- **FIAStudio rights management** to manage and ensure user rights

can be optionally integrated.

The FIA system is designed for routine operation, but it is also suitable for method development.

Data acquisition from FIA Nexus

- data acquisition and management for all channels
- data storage in database
- presentation of the analytical peak of the last measurement
- status indication for the connected modules
- connection between FIA system and PC via serial interface RS 232 or USB

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Presentation and evaluation of measurement data

- display of measurement data based on the selection of series, measurement date or time
- presentation of the sample peaks including zoom function
- marking of incorrect measurements as outliers
- presentation of the calibration curve in different modes
- editing of calibration results (marking of outliers, change of calibration mode)
- creation and print of protocols
    - calibrations
    - sample series results
    - occupancy of the sample tray
- transfer of protocols to pdf- files
- evaluation of control sample results
- archiving of sample and calibration results
- customized presentation of results by means of filter and sorting functions

General Requirements

hardware: standard PC (min. 4 GB main memory)
software: operation system Windows10
operation: typical windows user interface