

## IPS L

Instrument for determination of particle size distribution in the water and water solutions  
Measuring range 0,2  $\mu\text{m}$  - 600  $\mu\text{m}$

### Intended use:

- \*particle quantity and particle size one-dimensional measurements - according to maximum particle size
- \*for particles suspended in liquids
- \*for particles in gas envelopes
- \*measurements for solid particles, liquid ones (e.g. of oil) and gaseous (air bubbles)
- \*can be used as replacement for aerometric analysis

### Measuring method:

- \*optoelectronic measuring method employing light scattering phenomenon
- \*preliminary measurement within 4096 dimensional classes
- \*calibrated measurement within 256 equally sized dimensional classes or 11 unrestricted, user defined classes
- \*analysis of gas presence around particles
- \*coincidence analysis
- \*automatic dosing system
- \*500 kHz frequency of particle scanning
- \*measurements in the additional water stream protecting the optical system

### Specification:

- \*measuring sensor with infrared diode or laser diode
- \*dosing pump with electronic control system working with 4096 level resolution
- \*mixer, system of water filtration and venting
- \*notebook computer with dedicated software
- \*housing of duralumin and stainless steel sheet materials,  
the analyser weight 18 kg

### We provide:

- \*training
- \*technical support
- \*validation
- \*warranty and post-warranty technical service
- \*a software tool adapted to user needs and making possible to optimize the tested process

