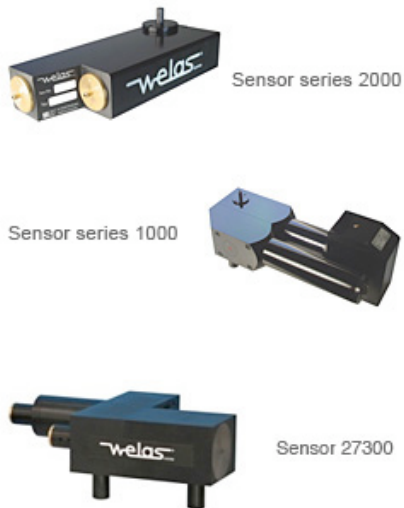


## Welas Sensors: Series 1000/2000



- The sensors are simply exchangeable
- The world's smallest and most robust sensors of the series 2000
- Very good conformity of all sensors regarding particle size and particle concentration
- Minimization of particle losses in long sampling lines by simple installation of the sensor directly at the sampling place
- Sensors for in-situ measurements
- Measurement in explosive environment with the series 2000 (without heating)
- Fast and simple cleaning
- Easy handling
- Low maintenance
- Reduce your operating expenses

**Palas® offers the worldwide largest selection of different sensors for the operation at the scattered light spectrometer systems welas® digital and Promo.**

welas® sensors are available for the particle measurement in gases and in liquids. The welas® sensors are optimized for particular particle concentrations with measuring volumes of different sizes for a coincidence-free measurement. Thus a high particle counting rate and thereby a good statistical security in concentration ranges of  $< 1 \text{ P/cm}^3$  bis  $10^6 \text{ P/cm}^3$  are achieved. The trouble-free and reliable measurement of large particles up to  $105 \mu\text{m}$  in the sensor is guaranteed by the vertical aerosol duct at a high volume flow of  $5 \text{ l/min}$  and a large aperture area.

### **Pressure-resistant and heatable aerosol sensors**

Special measuring cuvettes make the use of the welas® aerosol sensors possible, also under exceptional measurement conditions. These are available:

- Heatable up to  $250^\circ\text{C}$ ; higher temperatures on request
- Pressure-resistant up to 10 bar overpressure
- Resistant to chemically abrasive media

### **Specifications**

#### **Sensors series 2000:**

Measuring range:  $0,2 \mu\text{m} - 105 \mu\text{m}$   
 Weight: 2,8 kg  
 Dimensions (WxHxD):  
 $250 \times 50 \times 100 \text{ mm}$   
 Suction volume flow:  $5 \text{ l/min}$   
 (others on request)

#### **Sensors series 27300:**

Measuring range:  $0,5 \mu\text{m} - 40 \mu\text{m}$   
 Weight: 12 kg  
 Dimensions (WxHxD):  
 $470 \times 260 \times 150 \text{ mm}$

Volume flow: for in-situ measurements in tube up to approx.  $\varnothing 100 \text{ mm}$ ; depending on the tube  $\varnothing$