

APPLICATIONS

- Quality control / filter testing
- Inhalation aerosols
- Process optimization
- In-situ measurements
- Droplet size spectra
- Particle size analysis from 0.12–105 µm
- Characterization of test dusts and test aerosols
- Cloud research



OUR CORE COMPETENCIES

- Filter test systems
- Aerosol spectrometer systems
- Fine dust monitoring systems
- Nanoparticle measurement systems
- Particle generation systems
- Dilution systems
- Clean room particle technology
- Special developments
- Calibration systems
- Services
- Training courses and seminars

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AEROSOL SPECTROMETER AND SENSOR



OVERVIEW

PROMO® SINGLE

depending on PROMO® AEROSOL SENSOR 2XX0

$d_p \approx 0.2-105 \mu\text{m}$
 $C_{N \text{ max}} \approx 10^6 \text{ particles/cm}^3$
 $-20^\circ\text{C} \leq T \leq +250^\circ\text{C}$
 $p \leq 14 \text{ bar overpressure}$



PROMO® DUAL

depending on PROMO® AEROSOL SENSOR 2XX0

$d_p \approx 0.2-105 \mu\text{m}$
 $C_{N \text{ max}} \approx 10^6 \text{ particles/cm}^3$
 $-20^\circ\text{C} \leq T \leq +250^\circ\text{C}$
 $p \leq 14 \text{ bar overpressure}$



PROMO® AEROSOL SENSORS

temperature $-20^\circ\text{C} \text{---} +60^\circ\text{C}$

PROMO® AEROSOL SENSOR 2070

$d_p \approx 0.2-40 \mu\text{m}$
 $C_{N \text{ max}} \approx 10^6 \text{ particles/cm}^3$

PROMO® AEROSOL SENSOR 2100

$d_p \approx 0.2-40 \mu\text{m}$
 $C_{N \text{ max}} \approx 5 * 10^5 \text{ particles/cm}^3$



PROMO® AEROSOL SENSOR 2300

$d_p \approx 0.2-105 \mu\text{m}$
 $C_{N \text{ max}} \approx 4 * 10^4 \text{ particles/cm}^3$

PROMO® AEROSOL SENSOR 2500

$d_p \approx 0.3-105 \mu\text{m}$
 $C_{N \text{ max}} \approx 4 * 10^3 \text{ particles/cm}^3$



PROMO® AEROSOL SENSOR 2XX0 P

pressure resistant $< 14 \text{ bar overpressure}$,
 process temperature $-20^\circ\text{C} \text{---} +150^\circ\text{C}$

PROMO® AEROSOL SENSOR 2XX0 HP

pressure resistant $< 14 \text{ bar overpressure}$,
 $T \leq +250^\circ\text{C}$,
 process temperature $-20^\circ\text{C} \text{---} +250^\circ\text{C}$

PROMO® 1000

depending on WELAS® 1X00 sensor

$d_p \approx 0.12-40 \mu\text{m}$
 $C_{N \text{ max}} \approx 5 * 10^5 \text{ particles/cm}^3$
 $+10^\circ\text{C} \leq T \leq +120^\circ\text{C}$
 $p \leq 10 \text{ bar overpressure}$



WELAS® 1000 AEROSOL SENSORS

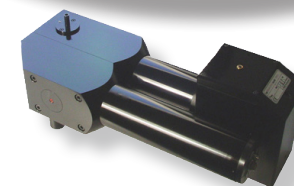
temperature $+10^\circ\text{C} \text{---} +40^\circ\text{C}$

WELAS® 1100

$d_p \approx 0.12-40 \mu\text{m}$
 $C_{N \text{ max}} \approx 2 * 10^5 \text{ particles/cm}^3$

WELAS® 1200

$d_p \approx 0.12-40 \mu\text{m}$
 $C_{N \text{ max}} \approx 5 * 10^4 \text{ particles/cm}^3$



WELAS® 1X00 P

pressure resistant $< 10 \text{ bar overpressure}$

WELAS® 1X00 HP

pressure resistant $< 10 \text{ bar overpressure}$,
 $T \leq +120^\circ\text{C}$