PROMO[®] 3000 H







Depending on the aerosol composition to be measured, i.e., the carrier gas component and the particle material, pressure and temperature changes in the carrier gas can significantly influence the particle size distribution, e.g., due to condensation or evaporation.

For this reason, the welas @ aerosol sensors welas @ 2070 P, HP, 2100 P, HP, 2200 P, HP, 2300 P, HP and welas @ 2500 P, HP 1 are equipped with a heatable and, as required, pressure-tight cuvette to ensure isobaric and isothermal sampling into the sensor's measurement volume.

The $Promo^{\$}$ 3000 H model variant also offers heating regulation for temperatures up to 250 °C for the aerosol sensors with heatable cuvette.

The Promo® system is usually calibrated for the operating volume flow. In the Promo® 3000 H version, the customer's regulation of the sampling volume flow is performed independently, considering the temperature ...

BENEFITS

- Measuring range of 0.2 to 100 μm (4 measuring ranges selectable in one device)
- Up to four measuring ranges in only one device:
 - 0,2 μ m 10 μ m
 - $-0,3 \mu m 17 \mu m$
 - 0,6 μ m 40 μ m
 - 2 μm 100 μm (additionally for sensors 2300 and 2500)
- Up to 128 size channels per measuring range
- Concentration range of 1 particle/cm³ to 10⁶ particles/cm³
- Calibration curves for different refractive indices
- Very high and reproducible counting efficiency rate starting at 0.2 $\mu \mathrm{m}$
- Optical fibre technology
- Simple operation with a large touch display
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- External control by RS 232 or Ethernet
- With analysis software PDAnalyze

APPLICATIONS

- Emission monitoring of installations
- Control of grinding and classification processes
- Monitoring of production processes in the food, pharmaceuticals and chemicals industries
- Testing of complete filters, inertial and wet separators or electrostatic precipitators

• Low maintenance

¹ weta Aprtiquadis Stoftwase RDC contisced for corporation HRS Wedlas® P, HP, 2200 P, HP, 2300 P, HP and welas® 2500 P, HP: http://existalvan/aproxidaladde/product/aerosolsensorswelas2000



DATASHEET

Measuring principle	Optical light-scattering	$\begin{array}{ll} \text{Measurement} & \text{range} \\ \text{(number } C_N) \end{array}$	< 1 • 10 ⁶ Partikel/cm ³
Measurement range (size)	0.2 – 10 μm, 0.3 – 17 μm, 0.6 – 40 μm, 2 – 100 μm	Volume flow	5 l/min
Size channels	Max. 128 (64/decade)	Time resolution	1 s
Interfaces	USB, Ethernet (LAN), Wi-Fi, RS- 232/485	User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Data logger storage	4 GB Compact Flash	Software	PDControl, FTControl, PDAnalyze
Thermodynamic conditions	250°C, -100 – 50 mbar	Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	Xenon arc lamp 35 W	Housing	Table housing, optional: with mounting brackets for rack-mounting
Support options	Direct remote access, Palas webserver service	Operating system	Windows embedded
Power supply	115 – 230 V, 50/60 Hz	Power consumption	100 W
Installation conditions	+5 – +40 °C (control unit)	Dimensions	185 • 450 • 315 mm (H • W • D) (19")

additional parameter on our website \dots