

MFP 3000 G



Version MFP 3000 G is especially tailored to the requirements of the ISO 16890 measurement procedure.

BENEFITS

- Virtually simultaneous particle measurement in up- and down stream
- High reproducibility of the testing method
- Easy use of different test aerosols, e.g. SAE Fine and Coarse, NaCl/KCl, DEHS
- Highest raw gas concentrations of up to $> 70 \text{ mg/m}^3$ (ISO Fine) or $> 300 \text{ mg/m}^3$ (ISO Coarse) with measurement of the fraction separation efficiency for loading tests
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- Short set-up times
- Cleaning and calibration can be performed autonomously by the customer
- Easy use of the measurement technology components – even in other applications
- Mobile setup, easy to move on castors
- Validation of the clear function during acceptance testing

APPLICATIONS

- Testing of filter media and small filter elements in product development and during production monitoring.
- Testing option based on ISO 16890 (General ventilation air filters), the test procedure according to ASHRAE 52.2 or EN 779 is optional available.

FEATURES

- Measurement of $C_n \text{ max} = 4 \times 10^4 \text{ particles/cm}^3$ without dilution
- Measurement of fractional efficiency and pressure loss vs. volume flow
- Use of the Promo[®] 3000 aerosol spectrometer
- Connection of the sensors in raw and clean gas
- Customized filter adapters and adaptations in the air duct possible
- On-site calibration and adjustment (particle size and volume flow)
- Checking the volume flow and pressure loss using a perforated plate

<https://www.palas.de/en/product/mfp3000g>

DATASHEET

Aerosols	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS)	Test area of the medium	100 cm ²
Measurement (size)	range 0.2 – 40 µm	Measurement (mass)	range Up to 1,000 mg/m ³ (depending on the version)
Volume flow	1 – 35 m ³ /h - suction mode	Differential pressure measurement	0 – 1,200 Pa selectable, 0 – 2,500 Pa selectable, 0 – 5,000 Pa selectable
Inflow velocity	5 cm/s – 1 m/s (others on request)	Compressed air supply	6 – 8 bar
Dimensions	2.500 • 680 • 1.550 mm (H • B • T)		

NORMS AND CERTIFICATES

ISO 5011, ISO/TS 19713, DIN 71460, ISO 11155-1, EN 779, ASHARE 52.2, ISO 16890