



Generation of nano-scale test aerosols from graphite, silver (Ag), gold (Au), copper (Cu), etc. through condensation; Carrier gas: Nitrogen or Argon (Replacement product of the GFG 1000)

Benefits

- Fast adjustable particle size distribution
- Very precise adjustment of volume flow via Mass-FlowController
- Excellent short-term and long-term particle size and concentration constancy
- Particle structure similar to that of diesel soot at graphite electrodes
- Apart from graphite electrodes, copper, silver or other electroconductive electrodes can be used as well
- For PMP-measuring section easy connectable to CVS systems in combination with RAS 3000 (accessories)
- No volatile parts in the aerosol
- Aerosol is temperature-resistant to 400 °C
- AK interface protocol for Ethernet via UDP protocol
- Easy to operate by touch display
- Highest reproducibility by saving the operation settings

- Easy transport

- Reliable function
- Best reproducibility
- Low maintenance

Applications

- calibration of PMP measurement chain
- calibration of particle measurement devices

- calibration of sampling lines
- production of nano particles

- Inhalation exploration

- Toxikology

<https://www.palas.de/product/dnpdigital3000>

Datasheet

<i>Parameter</i>	<i>Description</i>
Volume flow	4 - 70 l/min
Dimensions	125 • 470 • 435 mm
Weight	23 kg
Particle material	Carbon, copper, silver, gold and other metals
Dosing time	Several hours nonstop
Mass flow (particles)	0.06 - 25 mg/h (for carbon)
Particle size range	0.02 - 0.35 μm
Carrier/dispersion gas	Nitrogen or argon
Pre-pressure	4 - 8 bar
Compressed air connection	Quick coupling
Aerosol outlet connection	$\varnothing_{\text{inside}} = 6 \text{ mm}$, $\varnothing_{\text{outside}} = 8 \text{ mm}$
Dilution gas	Particle-free and dry compressed air
Particle size range (primary particles)	3 - 10 nm
Volume flow (accessories)	
	0 - 450 l/min (REF 3000)
Volume flow (carrier/dispersion gas)	4 - 20 l/min
Volume flow (dilution gas)	0 - 50 l/min

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