



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

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

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