SP200DAS AEROSOL PHOTOMETER



AN OVERVIEW

The DOP SOLUTIONS PHOTOMETER with the most advanced zero stability for testing HEPA and ULPA filters.

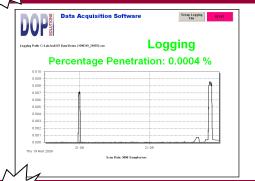
In-built data acquisition with HEPA filter reporting software for USB connection to PC. The software allows for data capture and will find leaks that might otherwise be missed, supports ISO14644-3 compliance.

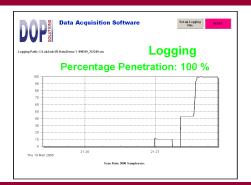
The Photometer meets or exceeds the current British, American, European and Australian requirements for filter testing with aerosol challenge efficiency or leak testing.

BENEFITS OF THE SP200DAS™

- Weighs only 9kgs
- Travel case included
- Comprehensive manual included
- Digital read-out : mass concentration in micro-grams per litre (μg/l) or direct percentage penetration as data
- True real time indication not processed
- Supported by factory trained personnel from our centrally situated Service Centre in Hertfordshire in the UK or one of our overseas partners
- Two stream solenoid switched may be computer controlled or remotely operated
- Switchable DNS makes upstream measurements stable and more accurate when poor mixing is found
- Unrivalled stability enables measurement to 99.9999% efficiency.
- Visual & audible alarm.
- True positive and negative display around zero.
- Nuclear toxic chamber option.
- Interface to computer option.

DATA ACQUISITION & FILTER TESTING SOFTWARE





SP20A DIGITAL PROBE (OPTION)

Advanced scanning probe for SP200 photometers - articulating multi-directional plastic scanning head inserted into a stainless steel hand-grip with digital display, remote visual alarm and software control buttons. Probe and hand-grip/display can be separated for ergonomic scanning. **GUARANTEED FOR LIFE** - free replacement for a component fault.





PRODUCT

Aerosol Photometer

MODEL NUMBERS

SP200DAS

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SPECIFICATIONS

Sample flow rate

Nominally 1 cubic foot per minute - 28 litres per minute +15%

Brushless DC 24V motor—highly reliable for continuous duty

Accuracy

Detector electronic linearity +0.5%

Optical system better than 5 % in any measurement decade

Sensitivity

 $0.00001 \, \mu g/\bar{l}$

Zero reading

Indicates on negative and positive side of zero

Zero stabilityBetter than ±0.00003 μ/l after 20 minutes

High/low Range

100μg/l to 1.000μg/l and 1.0000 to 0.00001μg/l mass concentration

100% to 1.000% and 1.0000% to 0.00001% penetration

Response time

100µg/l to 10µg/l in ≤5 seconds 0% to 90% in ≤5 seconds

Maximum Concentration

250 µg/l.

Particle size range

0.1 to 1.25 microns calibrated

Dynamic Noise Suppression (DNS)

Switched in or out - 75% dampening of reading.

Adjustable audio alarm with probe LED indicator.

Computer Output

Mini-USB

Power

90-250V Universal - 50 or 60 Hz.

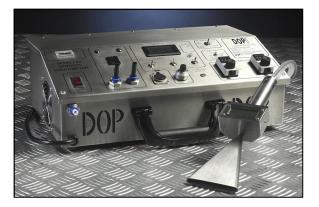
Operating Conditions

Temperature 5 - 50°C Relative Humidity 30 - 80%

Physical Specifications

Length 417 mm Depth 290 mm Height 143 mm Weight: 9 kg

Robust transport case for storage and shipping.



CALIBRATION

Calibration is made using the most advanced system available. Aerosols from 100 to 0.0001µg/l are repeatably generated and every instrument is tested through all 6 measuring decades. Certification is supplied to meet all current international filter testing legislation; BS, EN, ISO and IEST standards.



ORDERING INFORMATION

1. Photometer Only: SP200DAS

2. HEPA Filter Scanning Probe: SP20A

Advanced scanning probe for SP200 photometer, articulating multi-directional scanning head inserted into a stainless steel hand-grip with digital display, remote visual alarm and software control buttons.

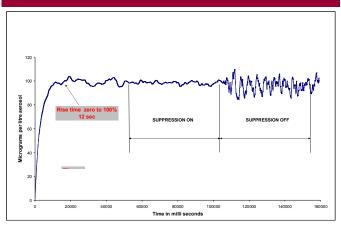
3. IQ/OQ protocol: 9000-500

Installation and Operational Qualification protocol with executable step-by-step activities to ensure the photometer. along with any aerosol generator, injection pump, sparge pipes or airflow instruments functions correctly.

4. HEPA filter testing course: PHOT-TRAIN3

One day training course on theory and practical testing of HEPA filters, run by The Academy for Cleanroom Testing.

DYNAMIC NOISE SUPPRESSION



Switchable DNS makes upstream measurements stable and more accurate when poor mixing is found