



Fotometro Modello PH 4

Description

1) New Digital Aerosol Photometer Model **PH 4**
Mains Supply 110 to 240 V AC. 

(Free Digital Hand-Probe & Software)



Worlds Only Microprocessor which controls Menu-Navigation Screen & 100% Fully Auto ranging!

No more adjustment of ZERO & SPAN dials like in OLD analogue machines!

True Precision engineered Metal Optical Chamber with LED – 20000Hrs Life!

The PH-4 is the most highly advanced aerosol photometer available today. The PH-4 utilizes a high resolution graphics display providing an easy to read panel display. The extremely simple menu-driven software system utilizes command prompts to inform the user of each setup process. The powerful microprocessor provides control of numerous functions, not available on any other Aerosol Photometer.



Light-Weight Probe and features remote control of alarm options which include a visual, audible and the **NEW Vibrating alarm**.

Flexible neck allows sampling at any angle and keeps Direct Vision of readout.

True real-time, unmodified Digital Readout!

The machined aluminium housing and heavy duty metal connector to the main unit provides years of trouble-free use.



Fotometro Modello PH 5

The PH-4 plug and play hand probe, which is **included at no extra charge**, is light weight and features remote control of alarm options which include a visual, audible and the NEW INNOVATIVE VIBRATING alarm. The machined aluminium housing and heavy duty metal connector to the main unit provides years of trouble-free use.

Additional standard features include:

- High Resolution Graphical Display
- Menu-Driven Software Functions
- Automatic Zeroing and Ranging- NO Need to adjust Zero/Span dials like in OLD analogue's!!
- Proven LED Light Source (Light Chamber)-20000Hrs
- Reference Settings for SEVEN types of oils as approved by FDA
- Retains Reference Settings when Powered Off
- Displays Upstream Ref. / Concentration Setting
- Stable at Low Concentrations of Aerosol ($\geq 10\mu\text{g/l}$)
- Probe Selectable Audible, Visual, Vibrating Alarms
- Plug and Play Probe – 10 foot length
- USB Interface PC Port for Testing and reporting to support ISO14644-3 compliance
- **Lightweight Heavy Duty Aluminium Case (No need for Transport Box)- only 9.1KG!!**
- Accepts Worldwide Operating Voltages
- Storage Area for Probe and Accessories
- Comprehensive manual supplied
- In-Line Filter holder included.

Additional standard features include:

S&M are the Worlds Only Company to have successfully designed and use a 22-point calibrator. We calibrate all photometers from 100 – 0.0001 $\mu\text{g/L}$ over 22-steps. We are the ONLY company capable of doing this and our S&M Calibrator has been repeatedly tested over 20Years. No other company is capable of this testing, and we prove this as we are also the only company to provide a Certified Graph for every photometer.

Our calibration and unrivalled knowledge of Photometers has allowed us to provide service to ALL of the largest firms in the UK & Worldwide - Ministry of Defense, AEA, Bioquell, BNFL, GlaxoSmithkline, Pfizer, Ipsen, CP Pharmaceuticals .

Our Calibration EXCEEDS ALL Standards ie. British, FDA, EC, etc.



2) New Digital Aerosol Photometer Model **PH 5**
 Mains Supply 110 to 240 V AC. CE

Free Digital Hand-Probe, Software
 & Heavy Duty Shipping Case.



The PH-5 digital photometer offers the most highly advanced, smallest size and weight in a rack or cart mount version of any photometer available today. The PH-5 utilizes a high resolution graphics display providing an easy to read panel display. The extremely simple menu-driven software system utilizes command prompts to inform the user of each setup process. The powerful microprocessor provides control of numerous functions, not available on any other aerosol photometer.

The PH-5 plug and play hand probe is light weight and features remote control of alarm options (includes a visual, audible and the NEW INNOVATIVE VIBRATING alarm). The machined aluminium housing and heavy duty metal connector to the main unit provides years of trouble-free use. See PH4 Hand Probe on page 1 for details.

Other upcoming features include electronic storage of the calibration report.

Standard Features


- High Resolution Graphical Display
- Menu-Driven Software Functions
- Automatic Zeroing and Ranging
- Proven LED Light Source (Light Chamber)
- Reference Settings for Multiple testing Reagents
- Retains reference settings when powered off
- Displays Upstream ref./Concentration Setting
- Stable at Low Concentrations of Aerosol(>10ug/l)
- Probe Selectable Audible, Visual, Vibrating Alarms
- Plug and Play Probe – 11 foot length
- USB Interface
- Lightweight Heavy Duty Black Aluminum Case
- Accepts Worldwide Operating Voltages
- Optional Heavy Duty Shipping Case

Technical Specifications

- Size: 13.5”Lx10”Wx6”H
- Weight: 18lbs. (8.2Kg.)
- Power: 100-250 VAC 50/60 Hz
- Power Consumption: [.92Amps@120V](#)
[.46Amps@240V](#)
- Minimum Display Reading: .0001%
- Maximum Display Reading: 1000%
- Sample Flow Rate: 1 CFM(28.3 SLPM)

Available Options

- Probe Extension – 11 Foot length

- 3) New **S&M Scientific** or **Compact** Aerosol Generator.
 With CO2 cylinder & gas regulator. 
 240V, 50 Hz 1 ph. Mfg co: S & M Electronics Ltd UK
 Please advice which oil is to be used i.e. EMERY 3004 or Shell on dina oil X 420.



[S&M Thermal Smoke Generator's.](#)
GO GREEN!! -50% more efficient than
 any other thermal generator in the
WORLD!—save ££'s on **CO²** and **OIL!!**

Only generator in the world to have a
 precision engineered Nebulizer!

Nebulizer give's Smooth Continuous smoke
 from 0-60psi.

Max Output **20.27g/min @ 60PSI!!**
 Oil Consumption appx **1200ml/Hr!!**

World's toughest heavy-duty case.
 From 7.5KG.

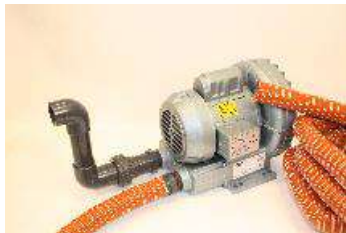
Specifications:

Test System Mixing Airflow Rate:	120 – 121,728 m ³ /Hour. (203 – 71,657 CFM @ 10 µg/Lit)
Particle Distribution	MMD & CMD <0.3 µm
Weight:	7.5kg COMPACT, 14kg SCIENTIFIC (On board gas bottle)
NEW Oil chamber	1L
Oil Consumption	1200ml/Hour
Max Output:	20.27g/min
Warm-Up Time:	5 mins.
Dimensions:	COMPACT 180 x 240 x 370mm, SCIENTIFIC 180mm x 345 x 460 mm

Supplied with the following items:

- Optional Remote control
- Optional 25mm or 40 mm Hose connection.
- User Operating Manual & Certificate
- PAO OIL 0.5 L bottle.
- Gas Regulator
- Gas Cylinder bottle spanner
- Funnel
- Plastic pipe with quick connector
- EMPTY Gas Cylinder 1.0 Kgs
- Optional 25mm or 40 mm duct adaptor @ € 82.00

- 4) LARGE Positive Injection Pump R3105-1 Gas Blower 240 V.AC Mains
 Supplied with Pipe fittings.
 Max Pressure 100 mbar.
 Max Flow 73m³h,
 Weight 13.1 Kgs. Without carrying Handle.
 Trolley



WARNING! The Fitting of a Speed Controller is a FIRE HAZARD and NOT recommended by the manufacturer. Anyone doing so is irresponsible and causing danger to the clean room & user.

- 5) Hose pipe 41mm I/D 4 METER Length (2 ply Silicon/ Viton coated glass fibres)
 The Highest quality piping to deal with heavy use. Not cheap plastic tubing!



- 6) Cold Generator Model AG A1 Laskin Nozzle.



Requires external air supply.

- The AG-A1 uses simple, easy to operate controls. The generator utilizes 4 Laskin nozzles, Testing Range: 540 - 5,400 CFM. (916.8 m³/h @ 100 ug/l to 9168m³/h @ 10 ug/l) Which provides 10ug/l of aerosol when introduced into 5400 cfm (9168 m³/h) of airflow*. This aerosol concentration is ideal for testing of HEPA and ULPA filtration systems with air volumes less than 5400 cfm. (9168m³/h).
- Aerosol Generation: 2 or 4 Laskin nozzles
- Compressed Air: 5.5 to 11 cfm @ 20 psi
- Case: Black Aluminium with Handle



- 7) The new AG—E1 Laskin Nozzle Aerosol generator is completely self-contained products (no external compressor needed) designed especially for testing of Biological safety cabinets and filter systems from 200 to 2,000 cfm. (339.60 m³/h @ 100 ug/l to 3396 m³/h @ 10 ug/l)



Standard Features.

- Heavy Duty Black Aluminium Case
- Fold Down handle
- Adjustable Nozzle Pressure
- Self Contained Operation (Electric)
- Pressure Gauge (0—30 psi)
- Illuminated off—on Power Switch
- Large Fill Port
- Sight Glass for Oil Level
- 0.75" FNPT Output w/Adaptor
- Cabinet Designed for Component Protection.



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