S & M Electronics Ltd.
105 Eastcote Road, Pinner,
Middlesex HA5 1ET, UK.
Tel : (020) 8429 1222
info@sandmelectronics.com

The Authority in HEPA support

AEROSOL PHOTOMETER CERTIFICATE OF CALIBRATION

Certificate No:	21303	Test Date:	26th October 2026
Manufacturer:	TEC Services INC	Model:	PH5
Serial No:	2799	Test Due:	26th October 2027
Customer:	Air Science Technologies Ltd Cross farm, Maiscough Lane Downholland LANCASHIRE L39 7HT	Contact:	Mr. Michael Crilly Paul

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This instrument has been tested & calibrated in accordance with the manufacturer's specification against our Aerosol Test Rig & Certified to meet all current U.S.A. & U.K. requirements for filter testing. This includes the following: CS-1T,2T,6T; ANSI 101 & 150; NSF 49, ASTM D-1899; IEST-RP-CC-013-86-T, IEST-RP-CC-002.2, IEST-RP-CC-034.1, EN 12469:2000, ISO 14644-3 and British Standard BS5295 and BS EN 1822.

The Aerosol Test Rig is calibrated annually when the actual mass concentration is measured by collecting and weighing the particulate, using Sartorius Scale Model 1712 s/n 3308 087, which has been certified by Sartorius Limited, UKAS Certificate No: 315JHB430, to meet British Standard using weights traceable to NPL standard. **Shell Ondina Oil (OND)** is used for calibration of the Aerosol Photometer.

Expanded Uncertainty of Measurement: ± 3.3%
Stated uncertainty based on temperature, humidity and pressure within 18- 25 °C, 35 to 70% RH and 960 to 1045 mbar.

Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Calibration Completed by: *Atul Patel* Mr A. Patel (Engineer)



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CERTIFICATE OF ELECTRICAL SAFETY TEST

Certificate No:	21303-1	Test Date:	26th October 2026
Manufacturer:	TEC Services INC	Model:	PH5
Serial No:	2799	Test Due:	26th October 2027
Customer:	Air Science Technologies Ltd Cross farm, Maiscough Lane Downholland LANCASHIRE L39 7HT	Contact:	Mr. Michael Crilly Paul

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This instrument has been tested against our portable appliance tester Seaward Europa Plus S/N: 27B-0771

The results are as follows:

Test Number	:	21303		
Date	:	26th October 2026		
Test Mode	:	Automatic		
Visual Check	:	Pass		
Earth Test	:	0.11	Ohms	Pass
Insulation Test	:	>99.9	Meg Ohms	Pass
Load Test	:	<0.05	K.V.A.	Pass
Leakage Test	:	1.71	Ma	Pass

Test Completed by: *Atul Patel* Mr A. Patel (Engineer)

Certified Test Equipment: Seaward Europa Plus S/N: 27B-0771



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AEROSOL PHOTOMETER CALIBRATION REPORT

Customer Name: Air Science Technologies Ltd ***(OND)*** Date: 26-Oct-2026

SHELL Ondina Oil (MK III)

Model No : PH 5 Serial No : 2799 Our Ref: 21303

Internal Reference set point Check.	Set Memory	Tolerance
Previous Service:	100.00	Ug/Litre.
Before Calibration:	0.00	10.00% +/-

D.C. Power supplies Volts :	12.00 Volt +	12.00 Volt -	5.00. +V	Pump:
	12.24	12.07	5.15	24.03

Test:		Linear Reading:
1	22	100.00%
2	21	94.10%
3	20	45.20%
4	19	35.10%
5	18	0.1900%
6	15	0.1000%
7	10	0.0270%
8	8	0.0160%
9	5	0.0071%
10	4	0.0042%
11	1	0.0001%

Ver: 1.52 , 1.2

1= 0.0005

2= 0.0020

3= 0.0150

		Channel :
PMT Gain:	74	4
Stray Light:	0.140	
Memory Value:	100.00	ug/Litre.
Air Flow :	28.50	Litre /Min.

Tolerance:µg/l ± 10 %

Expanded Uncertainty of Measurement 3.3%

Reported expanded uncertainty is based on standard uncertainty multiplied by coverage factor of k=2,
Providing a level of confidence of approximately 95%.

This Photometer is Calibrated by: *Atul Patel* Date: 26-Oct-2026

THIS DOCUMENT IS VALID FOR 12 MONTHS FROM DATE OF CALIBRATION.

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SERVICE REPORT

Manufacture: TEC SERV INC
Serial No : 2799 Contract : No
Model No : PH 5 Site : No

Service Report No : 21303
Date Reported : 22-Oct-2026
Warranty : NO

Company : Air Science Technologies Ltd
Address : Cross Farm, Maiscough Lane
Downholland
Lancashire, L39 7HT

Contact : Mr. Michael Crilly/ Paul
Purchase Order MC2-2026 KP

Found: Screen not working/ Software glitch

Frequency of service: Yearly service & calibration.
Reported Issue: Issue with Screen

Material Used.

Qty :	Part No :	Description	Price:
1	776691	Solvent Cleaner	£0.00
1		Electrical Safety Test	£0.00
1		Test Results + Certificate	£0.00
1		Overhaul Sample Valve + Chamber + Pump	£0.00
1		inspection	£135.00
1		Main PCB Reprogrammed with new software from manufacturer	£0.00

SERVICE DETAILS

1) Inspect Unit for physical damage : Yes
2) Disassemble and clean optical chamber : Yes
a) Replaced P.M.T. Tube: No — d) Realign : Yes
b) Replaced Lamp : No — c) Repainted: No
3) Check Absolute Reference filter: Yes — a)Replaced filter: No
4) Check pump: Yes Replaced — a) Pump kit: No
b) Wear Plate: No
5) Check Sample select Valve : Yes Replaced — a) O'Rings . No
b)Valve : No
6) Check a) For Leaks in the system: Yes
b) Internal power supplies: Yes
7) Replaced internal silicon rubber tubings : No
8) Check Hand probe : Yes Replaced — a)Meter : No
b)Tube : No — c) L.E.D. No — d) S.S. Screen No
9) Inspect all electrical contact: Yes
10) Calibrate Instrument: Yes — 11) Check Linearity : Yes
12) Final Test : Yes

Service Time: hrs. — Traveling Time: hrs

Date / hrs :	26-Oct-2026	5.00	Date/hrs:		
Cost : P & P		£0.00			
Labour:	£676.00	spares: £135.00	Engineer:	*Atul Patel*	26-Oct-2026 Date.

Total : £811.00 + VAT — Customer: 26-Oct-2026 Date.

AIR SCIENCE PH 5 S/N: 2799 S/R: 21303

