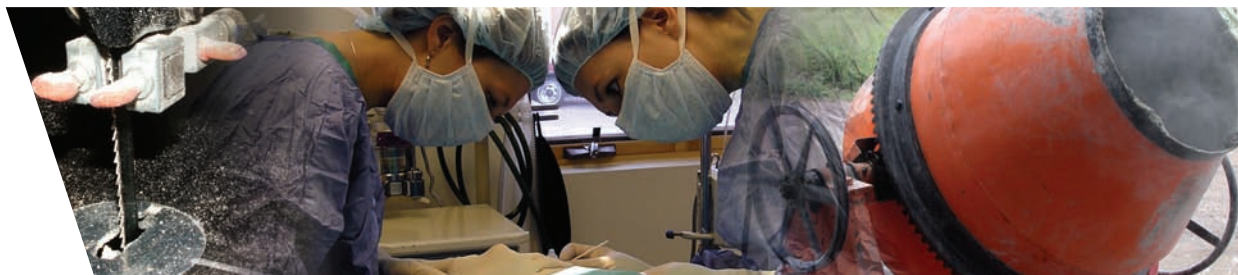


Apex Personal Sampling Pumps



One Pump - All Applications



Outstanding performance & features

The Apex, for professional air sampling in all monitoring scenarios

- Extensive flow range from 5 ml to 5 L/min
- Fast 1.5 hour charge via drop in charger
- Superb battery life > 45hrs @ 2 L/min (GFA)
- Large LCD indicating real time flow & volume
- Stable, accurate digital flow control ($\pm 3\%$)
- Gas Bag outlet for grab sampling
- On board data logging in Pro version
- Duration and scheduled sampling.
- Compliant to NIOSH 0600, EN1232



Drop-in fast charger

Applications

- Personal & area dust / solvent monitoring
- Construction / Demolition sites
- COSHH & OSHA Sampling
- Manufacturing Industries
- Welding fume
- Petrochemical Plants / Offshore
- Indoor air quality monitoring
- Spray booths / Powder coating



Pump with Tedlar gas bag for grab sampling

I.S. Certification

Intrinsically safe versions of Apex and Apex Pro are also available to UL and ATEX approvals.

Certification:
Eex ia IIB T4
ANSI/UL
913: Class 1,
Groups C,D.

CE 0539

DEMKO 05 ATEX 0439469X

Ex II 1G



Pump with low - flow adaptor for vapour sampling

Product feature selection

Feature	Apex	Apex Pro	Apex I.S	Apex Pro I.S
Flow Range (ml/min)	5-5,000	5-5,000	5-4,000	5-4,000
Intelligent fast charging	•	•	•	•
Fast charge time	1hr	1hr	1hr	1hr
Internal digital flow control	•	•	•	•
Flow block / auto restart	•	•	•	•
Duration mode	•	•	•	•
Lockable keypad	•	•	•	•
Dry cell battery option	•	•	•	•
Large LCD display	•	•	•	•
Bag (grab sampling mode)	•	•	•	•
Display of real time flow	•	•	•	•
Full Data logging		•		•

Report generation

Pump Manager Sampling Report



Client:Engineering Co.
Name:
Location:Belfast

Contract Ref:1788989
Report No:123

Process Notes:-
Monitoring of Welding Booths

Substances:-
Welding Fume, Colophony

Pump Data:-
Pump:0920102

ID:SN 0920102

Run Data:-
Start: 15:08:1601/10/2002 End:15:15:29 01/10/2002 Period:2minutes
Set flow rate:2L/min Ave.temperature:25.9°C Sample volume:7.36667Ltrs

01/10/2002 15:08:16 - 15:08:40 0 minutes 24 seconds 2 L/min 255°C
01/10/2002 15:08:46 - 15:09:48 1 minutes 02 seconds 2 L/min 260°C
01/10/2002 15:11:42 - 15:11:52 0 minutes 10 seconds 5 L/min 260°C
01/10/2002 15:08:46 - 15:09:48 1 minutes 02 seconds 2 L/min 260°C
Blockage!
01/10/2002 15:14:43 - 15:14:47 0 minutes 04 seconds 5 L/min 260°C
01/10/2002 15:14:49 - 15:15:29 0 minutes 40 seconds 5 L/min 260°C

Volume sampled:7.36667 Ltrs

Sample data:-
Welding Fume mixed with rubber fume

Sample number:12345

Analyte 1: Welding Fume
Sample mass: 0.0098mg
Concendradion: 133032mg/m³
TWA/STEL: 133032mg/m³

Notes:-
Pump shut down but restarted following a temporary inlet blockage.

Sampled by: Fred Bloggs

Audited by: M Harris

Date: 01/01/2006

Date: 01/01/1970

Versatile kits

In addition to the pumps, various kits are also available.

A Starter Kit contains:
Rotameter and stand,
I.O.M sampling head
with cassette, tweezers,
accessory container, all in
a plastic carry case.



A rugged, 5 way kit case is available, housing 5 pumps, a 5 way charger and accessories.

Sampling accessories



A full range of sampling accessories include:
charcoal & silica gel tubes, Tedlar gas bags, bubblers, impingers, sampling heads and filter media.

Comprehensive software

Pump Manager is a versatile software package simplifying the management and reporting of sampling data.

- Program pump for time scheduled operation
- Ideal for legislative record keeping
- Full reports generated for audit trails
- Logs: events, voltage, volume, flow rate, date & time
- Direct input of laboratory analysis data
- Automatic calculation of T.W.A and mass concentration
- Export into other word processing packages
- Input of specific employee details

Technical Specification	Apex Standard / Pro	Apex I.S Standard / Pro
Flow Range	5 - 5,000 ml/ min	5 - 4,000 ml/ min
Flow Control Accuracy	Digital flow control circuit $\pm 3\%$ for calibrated point	Digital flow control circuit $\pm 3\%$ for calibrated point
Inlet pulsation ratio	$< 10\%$ @ 2.0 L/ min	$< 10\%$ @ 2.0 L/ min
Typical Charge time	DT / dt < 3.5 hours 1 hour gives 8 hr operation	DV / dt < 4.5 hours 1.5 hours gives 8 hrs operation
Temp Range	Operational: 5 to + 45°C Storage: -10° to + 50°C	Operational: 5 to + 45°C Storage: -10° to + 50°C
Data logging	100 Runs	100 Runs
Battery	4.8V NimH 2.7Ah	4.8V NimH 1.7Ah
Dimensions	135 x 75 x 43 mm	135 x 75 x 43 mm
Weight	460g	435g
Service Interval	2500 hours (typically)	2500 hours (typically)

Back pressure "H ₂ O, Run Time (hours) (Non IS / I.S)	1 L/ min	2 L/ min	3 L/ min	3.5 L/ min	4 L/ min
25 mm GFA	2" (100/ 51)	3"(45/ 26)	4"(24/ 15)	5"(21/ 11)	5.3"(16/ 2)
37 mm GFA	0.5"(100/ 58)	1.5"(65/ 31)	2"(31/ 17)	2.5"(23/ 13)	2.6"(19/ 12)
25 mm 0.8 µm MCE	6.5"(72/ 31)	11"(24/ 13)	15"(16/ 1)	17"(11/ N/A)	19" (N/A)
25 mm 1.2 µm MCE	4.5"(100/42)	11"(34/ 18)	10"(17/ 11)	11.8"(16/ <1)	12.5"(11/ N/A)
5" Back Pressure Run Time (I.S)	33h	20h	13h	11h	3h

Run tests undertaken using Whatman GF/A & Millipore MCE filters

ORDERING INFORMATION

182000B Apex Standard Sampling Pump

182063B Apex Pro Sampling Pump

182150B Apex Standard I.S

182160B Apex Pro I.S

P104104 Apex Starter kit

(Comprising: Plastic carry case with accessories box, 0.3 to 3 l/m rotameter and stand, I.O.M head with cassette (1off), tweezers.)

182091A Pump Manager Software /Interface
(for Apex Pro versions).

182052B Apex single charger

182261B Apex I.S single charger

182108A 5-way charger for Apex & Apex Pro UK

182109A 5-way charger for Apex & Apex Pro Euro

182110A 5-way charger for Apex & Apex Pro US

182111A 5-way charger for Apex & Apex Pro Australia

182264A 5-way charger for IS Apex & IS Apex Pro UK

182265A 5-way charger for IS Apex & IS Apex Pro Euro

182266A 5-way charger for IS Apex & IS Apex Pro US

182267A 5-way charger for IS Apex & IS Apex Pro Australia

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