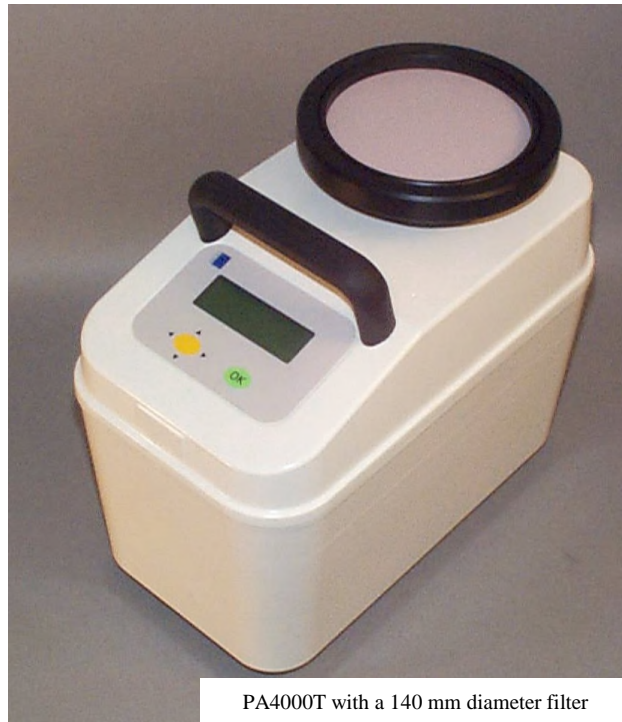


AEROSOL SAMPLER PA 4000T

○ FILTER SAMPLING OF AIRBORNE AEROSOLS

□ APPLICATIONS

- Solid particle sampling for analysis of :
 - radioactivity
 - weight contents
 - chemicals
 - pesticides
 - asbestos
- Monitoring in the workplace :
 - Industry
 - Hospitals
- Interventions on radiological incidents
- Expertise



PA4000T with a 140 mm diameter filter

- In situ sampling on filters or cartridge, followed by laboratory analysis
- Centrifugal turbine for silent running
- Sampling flow rate **adjustable from 1.5 m³.h⁻¹ to 4.0 m³.h⁻¹** according to filter type.
- **Mains** powered
- **Regulation** of the sampling flow rate at the nominal value chosen by the user.
- **Protected Access** by confidential code, no ON/OFF switch accessible
- 3 operating modes: continuous, timer, programmed.
- Sampled volume and instant flow rate values available on display.
- Data reading and parameter setting via keypad or *PaView* software.
- Compliant with the standards NF M 60-760 and IEC 61172.

Specifications



AEROSOL SAMPLER PA 4000T

SPECIFICATIONS

Sampling media:

« pink », « yellow » or « blue » paper filter,
fibreglass, membrane,
Activated carbon cartridges.

Sampling head:

140 mm diameter
Sintered bronze filter support for homogeneous
sampling
Fastening by screw ring or spring depending on
model
Adjustable angle (45° or 90°)
Possibility of off-setting the sampling media

Sampling pump:

Centrifugal turbine, 24 VDC.
Maximal pressure drop: 80 mbar

Sampling flow rate:

Nominal flow adjustable from 40 to 100% of the
maximum value with **PaView** monitoring software,
available from www.algade.com

Factory setting 2.0 m³.h⁻¹

Max Value⁽¹⁾ 4.0 m³.h⁻¹

Adjustment to ± 0.5% of the nominal flow
Regulation every 36 seconds.
Tolerance on the measurement of the sampled
volume ($\Delta V/V$) < 0.8%

Note⁽¹⁾: Value subject to filter compatibility

Sampling modes:

Continuous : manual sampling
Timer: Sampling for a set duration
Programmed: Weekly programming with a daily
operational range.

Parameters monitored:

Temperature: accuracy 0.5°C (absolute)
Power voltage : 0.1 V (resolution)

Monitoring:

14 bits RISC Microcontroller
Back-lit 4*20 LCD screen
Command by 2 push-button pad.
Protected Access by 4 digit confidential code
Data back-up in the event of power failure (sampled
volume and parameters).

Memory capacity:

1Mbytes Flash memory (Data back-up in the event of
power failure).

Environment :

-15°C to +45°C / 10-90 % relative humidity.
Protection rating: IP54.
Sound level: < 45dBA @ 2.0 m³.h⁻¹
Compliant with standards CEM EN 55022 and CEI
61000-4

Housing : Polycarbonate. Dim L*1 340*190 mm.
Weight: 6 kg

Alimentation :

Mains 230V, 50Hz
Power usage @ dP 80 mbar < 120W

Configuration and data download:

Data transfer via RS232C cable serial link or by
modem / GSM (19200 Bauds, 8bits, 1 stop).

The PA 4000T is supplied with:

- 230 V Power cable ,
- Serial link cable,
- Verification certificate.
- **PaView** Software

References:

Two references are mandatory :

1- Type of instrument

PA4000 P-531-105

2-Filter media

Filter dia 140/125 mm P-531-112
Cartridge P-531-113

3 -Accessories:

45° elbow P-531-114
90° elbow P-531-115
1,50m Filter elevation kit P-531-131
Stabilisers P-531-132
Buzzer (signals operating faults) P-531-121
Tube for filter off-setting M-570-111
*Up to 10 m according to sampler and
medium*

Other accessories on request