



TRTECORRA[®]
POLLUTION CHECK



OUTDOOR
AIR QUALITY

Complaint
EN12341:2014

 **TES** Thomson
Environmental
Systems

www.thomsongroup.com.au

SKYPOST PM FX

Sequential Station for Particulate Matter



Sample PM everywhere





Sequential Station for Particulate Matter

SKYPOST PM FX

Skypost PM FX is an automatic outdoor station for continuous atmospheric particulate monitoring using 47mm diameter filter membrane.

The sequential substitution system of the filtering membrane with 16 membranes capacity and the electronic flow rate controller, allow continuous, unattended operations as well as an easy replacement of the exposed filters without interrupting the sampling.

Skypost PM FX has up to 50 l/min flow rate capacity and is suitable for dust sampling with LVS PM10 2.3 m³/h sampling head and LVS PM2.5 2.3 m³/h sampling head, according to EN1234:2014 norm.

The modularity of the sampling head allows to use the USEPA 40, CFR Part 50 sampling head as well.

The completely straight suction tube with its round shape and the separation of the storage filter zone from internal and radiant source of heat, allow to collect and keep the integrity of the pollutants.

A ventilation and differential thermoregulated heating system allows the instrument to operate even in extreme ambient conditions.



MAIN FEATURES

- ▶ Compliant with EN12341:2014;
- ▶ 16 filter capacity;
- ▶ Weather proof, operative temperature from -20°C up to 50°C;
- ▶ Maintains sampled filters temperature bellow 23°C with external temperature up to 50°C;
- ▶ Measuring sensors for:
 - Atmospheric pressure;
 - Pressure drop on filter;
 - Ambient temperature;
 - Dry gas meter temperature;
- ▶ Electronic flow rate control
- ▶ Volumetric measurement with dry gas meter within ±2% precision
- ▶ Sampling probe ventilation system, to guarantee a differential temperature between the filter and the sample inlet of max. 5° C, in accordance with EN12341:2014
- ▶ Data download via Ethernet and USB ports.
- ▶ Sample conditioning signal for:
 - Wind direction*
 - External signal * (i.e. rain)
- ▶ Built-in printer.



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MAIN APPLICATIONS

- ▶ Total particulate matter;
- ▶ PM₁₀ and PM_{2.5} sampling according to EN12341:2014;
- ▶ PM₁;
- ▶ Heavy Metals;
- ▶ VOC in TSP, PM₁₀ and PM_{2.5} sampling.



DESIGN FOR FIELDS SAMPLING

Skypost PM FX is a standalone sampler built into a weatherproof cabinet made to work outdoor in the most extreme conditions.

A test made by an ISO17025 certified lab showed its ability to work with external temperature from -20°C to 50°C.

Available version with integrated OPC for the Real-Time determination of dust and weather station for the monitoring of meteorological parameters (P, T, RH, wind speed and direction).



FILTER X - Cooler TECHNOLOGY

FilterX - Cooler is the cooling system for sampled filters reservoir of Skypost, designed according to EN12341:2014 requirements.

FilterX - Cooler, technology thanks to its smart temperature control gives an optimal protection of sampled filters avoiding their exposition to heat and to condensates.

Its ability to maintain filters bellow 23°C with external temperature up to 50°C has been tested by an independent ISO17025 certified lab.



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DATA MANAGEMENT

Skypost PM FX has a new data management system with following features:

- ▶ Continuous sampling data storage;
- ▶ Min., max and average values of all the measured data;
- ▶ Alarm management;
- ▶ Data download via USB and Ethernet cable;
- ▶ Data export into Excel files.

TECHNICAL FEATURES

Flow rate range	10 - 50 l/min
Pump type	Rotativa a palette 6 m ³ /h
Operative conditions	Da -20°C a +50°C
Cooling system	Electronically controlled calories removal
Dimensions (b x p x h)	450 x 510 x 610 mm
Weight	45 Kg
Instrument	
1 220 Vac ± 10% 50/60 Hz	AA99-014-0050SP
2 90-130 Vac ± 10% 50 / 60 Hz	AA99-014-0051SP
Telescopic tripod	AA99-014-9906SP



*"The simplest way
to sampling particulates
Anywhere!"*



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