



# Atmospheric Particulate Matter Sampler

## ECHO PM

**ECHO PM** is a "stand alone" instrument projected also for outdoor operation in harsh climatic conditions.

The wide regulation range and the accurate electronic flow sampling control at either actual or standard conditions, makes **ECHO PM** in accordance with the reference methods **EN 12341 for PM 10 with head LVS PM10 2.3 m<sup>3</sup>/h, and US EPA 40 CFR part 50 for PM10 and PM2.5 at 1m<sup>3</sup>/h.\***

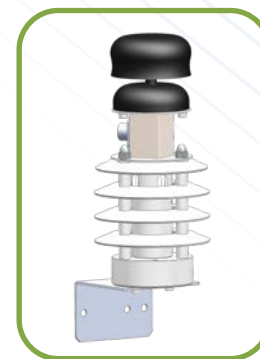
Developed and realized to allow the maximum utilizing flexibility, the ECHO

PM satisfies the hardware and software requests that permits up to 2 sequential sampling lines\*\*.

Supplied with respective sampling head ECHO PM can be utilized respecting the "ISO/CD 16362 for the determination of polycyclic aromatic hydrocarbon PAHs" sampling norms.

\*Possibility to monitor PM10, PM2.5, PM1, REALTIME trend concentrations and 24 sizes classes particle distribution and CO2 and relative humidity.

\*\*Facultative options



### DECONTAMINATION

All **TCR Tecora®** instrumentation undergoes a surface decontamination treatment. The supply includes special packaging and labeling systems for greater safety of our customers. Our construction and maintenance procedures require the decontamination of the surfaces. The labels applied to the products are filled in by entering the date and name of the operator who performed the decontamination process.





### MAIN CHARACTERISTICS

- ⊙ In compliance with the following norms:  
**EN12341, EN15549, ISO 16362, ISO 12884.**
- ⊙ Autonomous sampling with maximum 2 sequential samples\*;
- ⊙ Electronically controlled flow rate sampling at standard and actual conditions;
- ⊙ Wide graphical display with background illumination, dedicated keyboard, RS232 interface;  
Permanent date and hour programming;
- ⊙ Sampling time with 1" resolution is selectable
- ⊙ from 1' to 168 h;
- ⊙ PM10, PM2.5, PM1, OPC real time dimensional classes 24 CO<sub>2</sub> and relative humidity real time;

### Measured and memorized parameters:

- > Flow rate;
- > Totalized volumes;
- > Ambient temperature;
- > Ambient pressure;
- > Filter load.
- ⊙ Memorization of more than 60 sampling reports;
- ⊙ Memorization of flow sampling of 5 minutes interval;
- ⊙ Reduced dimensions and weight light alloy cabin, suitable for outside installation;
- ⊙ Remote control via GSM SMS (\*);
- ⊙ Sample conditioning in relation to wind speed and direction (\*).

### CARATTERISTICHE TECNICHE

Flow rate range	10 - 50 l/min
Flow rate at inlet	> 50 l/min
Pump Type	4.2 m <sup>3</sup> /h dry rotary vane
Autonomy	max 3 sequential samples*
Power Supply	220/240 Volt 50Hz
Operative conditions Low temp. kit	-3° +40° C (-20° +40° C with low temp kit*) AA99-009-9901SP
Dimensions mm	340 x 250 x 440 mm (b x p x h) (without stand)
Weight Kg	19 Kg
P/N of instrument 1 line	AA99-009-0000SP
P/N of instrument 2 sequent. lines	AA99-009-0010SP
P/N of aluminium stand	AA99-009-9910SP
P/N of the wind speed / dir. interface	AA99-009-9907SP
P/N of the wind speed / dir. sensor	AA99-009-9908SP

\*Facoltative options.

