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AEROSOL AND GAS INLETS

The inlets system for gas analyzers and aerosol sampling has been developed for high measurements standard as the international standards of the Global Atmospheric Watch and the World Meteorological Organization.

GAS

The gas inlet is done with nonreactive material so it doesn't interfere with the measure of the principal gases present in the atmosphere

Temperature control system to avoid condensation phenomena

Control and auto-regulation of the suction pump to keep the flux constant independently from wind conditions and number of attached analyzers

Measurement of temperature and humidity of the sampled air

Manifold for connection of several analyzers

manifolod gas inlet

AEROSOL

Aerosol inlet with suction pup and manifold

The aerosol inlet is done with conductive materials to avid particles leak due to electrostatic phenomena.

Control and auto-regulation of the suction pump to keep the flux laminar and constant independently from wind conditions and number of attached analyzers

Measurement of temperature and humidity of the sampled air

Manifold for connection of several analyzers

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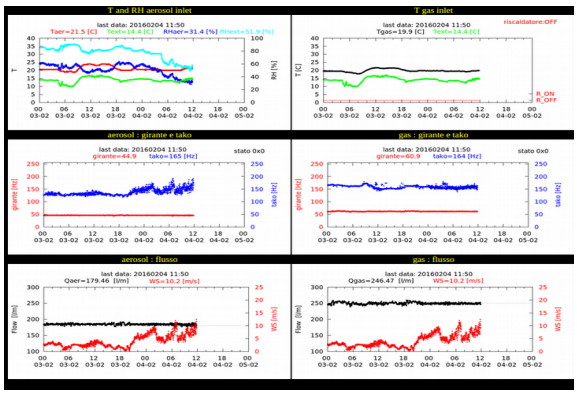
AEROSOL AND GAS INLETS

Picture of the inlets system installed in coastal observatory, characterized by strong wind

LOW ELECTRICAL CONSUMPTION

The control systems and the suction pumps have been designed in to have low electrical consumption, that make these inlets system usable also in sits where green energy is preferred or the availability of electrical power is low

REMOTE CONTROL



Both the inlet system provides the remote visualization of the Temperature and humidity of sampled air, data that are also available for archiving

Air temperature and humidity are very useful parameter for the analysis of the measured quantities

CONTSTANT FLUXES EVEN WITH STRONG WIND

The particular design and the suction pump control system allow the inlet to maintain constant fluxes even in strong wind conditions