Why Measure Nanomaterials ?

Whilst a growing number of engineered nanomaterials (ENMs) are already available on the market, there is still a on-going debate about their potential effects on human health and the environment.

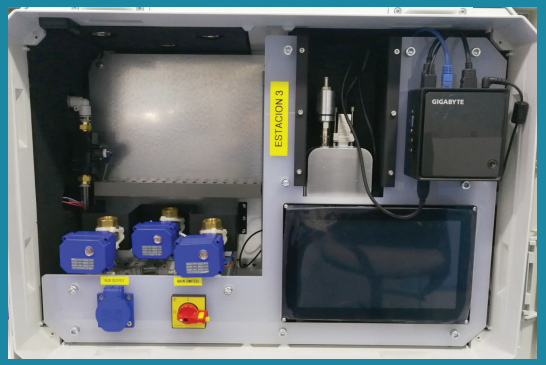
In this context, a comprehensive risk assessment is needed, including information with respect to the intrinsic properties of the particle that may assist in identifying the presence or absence of hazardous properties, as well as the likelihood of exposure in a specific compartment (i.e. workplace,consumers and the environment).

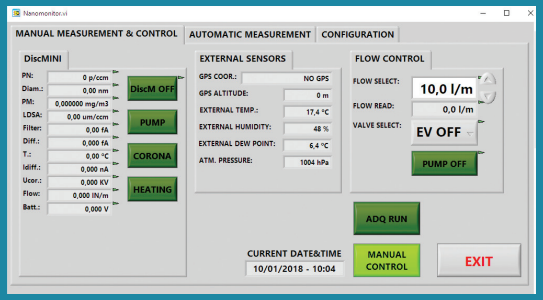
Interested in Using the Station?

You can now use the NanoMONITOR station in your own facilities to obtain robust data on the concentration of ENMs. Access is provided on a transnational basis with no charge to the user.

Visit the project website www.lifenanomonitor.eu and complete the expression of interest form.

The information provided by you in this form will only be used by the NanoMONITOR management team to enable our technical experts to discuss the feasibility of proposed activities.





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nanoMONITOR

Remote Sensing of Nanomaterials

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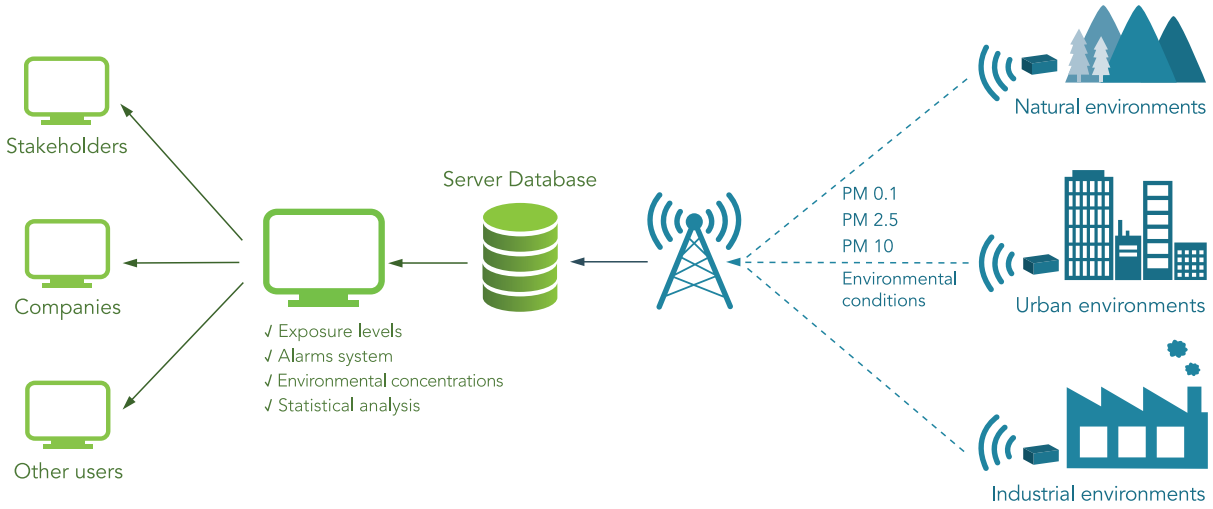
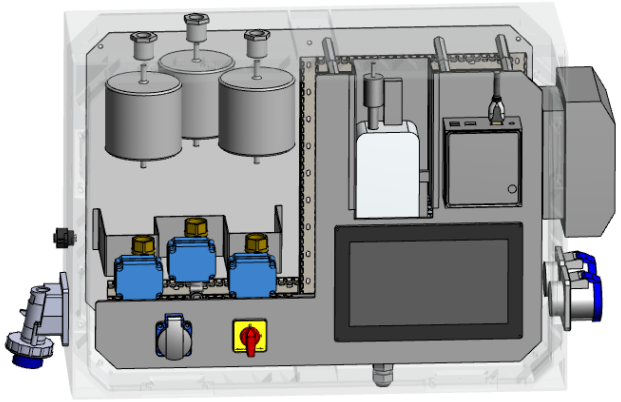
NanoMONITOR Approach

Development of a new monitoring station prototype for continuous monitoring of particles below 100 nm in air (PM0.1), combining web based data acquisition technologies with proven measurement devices.



The NanoMONITOR Station



Prototype Specifications

Detection of particles ranging in size from 10 to about 700 nm

Geolocated real-time information on ENM concentrations

Integrated plug and play solution designed for long term sampling and monitoring ENM concentrations

Remotely configurable settings, readings and transmission periods

Minimum maintenance requirements

Data Acquisition Software

Multiple exporting data formats

Real-time multiparametric graphical information

Easy data management options, including data storage, comparative analysis and modelling

High resolution maps

Access from smartphones and tablets

NanoMONITOR Station Specifications

Measurement Units	pt/cm^3, nm, µm^2/cm^3
Concentration range	10^6 pt/cm^3
Time resolution	1 second
Data visualisation	Via display on the device and on a PC running the web NanoMONITOR software
Measurement technology	Diffusion charging
Communication	Internet access is given through the EWON router with a 4G connexion
Dimensions (H x W x L)	500 x 300 x 775 mm
Weight	14 kg

Interested in using the Station? →