

ProSystem Nx Series



Connected multi-sensor devices for indoor pollution monitoring



- Monitoring up to 26 parameters
- Integrated in My.Nuvap Cloud Platform
- Basic App
- 80sm coverage
- up to 3 hours Battery Backup
- up to 60 days embedded data storage
- WiFi Connectivity
- Simple Configuration
- 2 Years Warranty
- Made in EU

Application

The continuous exposure to sources of indoor pollution is one of the major causes of chronic and serious diseases.

Dangerous substances — any liquid, gas or solid that poses a risk to workers' health or safety — can be found in nearly all workplaces. Across Europe, millions of workers come into contact with chemical and biological agents that can harm them.

The European Framework Directive on Safety and Health at Work (Directive 89/391 EEC) adopted in 1989 was a substantial milestone in improving safety and health at work. It guarantees minimum safety and health requirements throughout Europe while Member States are allowed to maintain or establish more stringent measures.

Nuvap ProSystem Solution

Nuvap has developed a simple, innovative and cost-effective IoT solution to monitor up to 26 sources of indoor pollution - 24x7x365 - and generate reports and notifications about the average registered parameters.

Nuvap ProSystem is composed by Nx Series devices and the cloud platform, My.Nuvap.

Nx Series are reliable multi-sensor devices devoted to monitor up to 26 parameters about indoor environment quality.

Nx Devices are integrated in My.Nuvap cloud platform. Data can also be visualized thru the dedicated App, that is the main interface when the device is installed in stand-alone mode.



My.Nuvap Platform

My.Nuvap is a multi-tenant platform devoted to collect the data monitored by Nuvap Nx devices and enable multiple actions:

- Device management
- Visualization of Dashboard (Nuvap Index)
- Notifications management
- Scheduled or on-demand recurrent reports

Platform uptime is 99,9%.

Connectivity

Data monitored by Nx Series are conveyed to My.Nuvap Platform thru a standard WiFi connection. Supported WiFi standards are 802.11 b/g 2.4 GHz.

Nx Series requires a simple network registration procedure. Nuvap App allows an easy discovery and registration of Nx device on My.Nuvap cloud. Once the devices are connected, no further configuration is requested.

Notifications

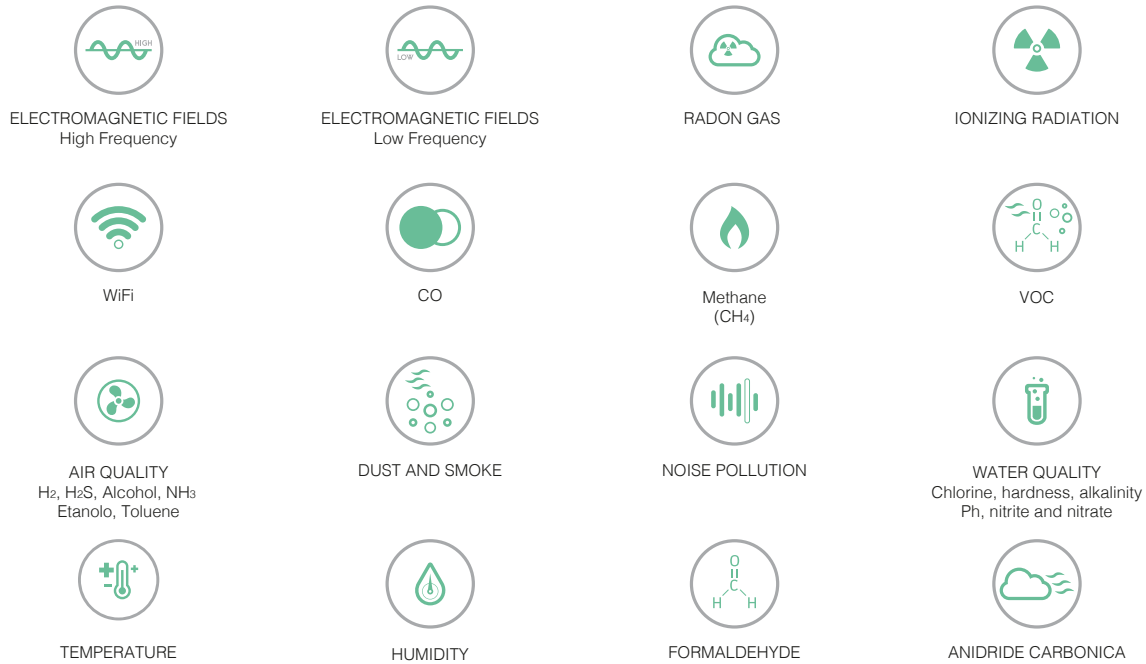
Nx Devices provide 2 types of voice alarms (caution and danger) and 5 types of light signals (green, yellow, red, blue and violet). Notifications can be set thru the App and My.Nuvap platform and delivered via App or email. They can also be disabled.

The Technology

Nuvap selected highest quality certified sensors and some of them - Radon, Electromagnetism and Radioactivity - are exclusive to Nuvap system.

The patents and the algorithms to assess the health and safety of the monitored premises are uniquely developed by Nuvap.

The monitoring of some parameters is carried out thru sensors covered by patents belonging to third parties.



Physical Info

Operating and Storage Temperature range: -5°C to +40°C
 Operating and Storage relative Humidity range: 20% to 80% without condensation
 Operating altitude: Up to 2.000 mt above sl
 Deployment: Indoor
 Dimensions (mm): 183x183x80
 Weight (Kg): 0,78

Operations

Installation Category II
 Pollution Degree: 2
 Battery Back-up: 3,7 Vdc 2200 mAh
 Power Supply: Input 100-240 Vac, 50-60Hz
 Power Supply: Output 5 Vd @ 2A

Connectivity: WiFi: 802.11 b/g Class III
 Platform uptime: 99,9%
 App OS: Android and iOS

Sensors

- Electromagnetic fields High Frequency
- Electromagnetic fields Low Frequency
- Radon Gas
- Ionizing Radiations
- Wi-Fi
- Methane
- Noise Pollution
- Air Quality (H2, LPG, Alcohol, NH3, Ethanol, Toluene)
- Water Quality (ext. kit) - (Chlorine, Hardness, Alkalinity, Nitrite and Nitrate)
- Particulate Matter
- Carbon Monoxide
- Carbon Dioxide
- Formaldehyde
- Temperature
- Humidity

Approvals and Compliances

- R&TTE 199/5/CE
- EU Directive 2006/95/CE
- EU Directive 2004/108/CE
- EU Directives 1999/5/CE
- EN 300 328
- EN 301 489-1
- EN 301 489-17
- EN 55022
- EN 55024
- EN 61000-3-2
- EN 61000-3-3
- ENEA certification N.644ARN

Technology Partners

Bicocca University of Milan (water quality patent)
 University of Pisa
 FBK - Trento

Safety

- CEI EN 61010-1
- EMC EN 61326

Restrictions on Hazardous Substances (RoHS) Compliance

RoHS compliant

Ordering Info

- NVN104** N1Plus 26 parameters
- NVP_CN1RA** N1Radon 23 parameters
- NVP_CN1A** N1Basic 22 parameters

Accessories

- NVP_CYREP** 1 yearly report
- NVP_CRPER** Report by an Environmental Engineer
- NVP_CCALY** Calibration - 1 device
- NVP_CWAR1Y** Warranty Extension
- NPP_CWATREF** Water test - refill