

ProSystem Solution

Insights and analytics about Indoor Environmental Quality.



Indoor pollution is influenced by a mix of conditions that change on a case by case basis, mainly related to the quality of the built environment, the building operations and the occupants' activities .

Nuvap provides actionable insights, support for the implementation of best practices and a simply communication tool of indoor environmental conditions.

The Indoor Environmental Quality

Environmental quality is an increasingly important requirement, which goes beyond mere adherence to environmental hygiene standards.

The quality and safety of the built environment have to be assessed and made visible. When needed the wellbeing and productivity of the occupants and the performance of the buildings can be greatly improved by proactive and integrative initiatives, that are becoming best practices in the transformation of indoor spaces.

Nuvap offers an effective solution for the continuous monitoring of indoor environmental quality, by focusing on chemical and physical pollutants. The most important ones are electromagnetic fields, radioactivity and radon gas emissions, formaldehyde, dust, carbon monoxide, methane and Volatile Organic Compounds (VOC).

Nuvap ProSystem Solution

Nuvap ProSystem is the only solution for B2B customers able to provide insights and analytics about indoor environmental quality. It supports continuous improvement initiatives, enables the compliance with certification frameworks (i.e. ISO45000, WELL, ...) and allows an easy communication about IEQ.

The ProSystem solution consists of a service platform supported by a range of extremely compact devices with a simple design and uncomplicated management. The data are accessible via web and mobile app. API are available for integrations.

Nuvap Platform

My.Nuvap is a multi-tenant platform devoted to collect the data monitored by Nuvap devices, analyse them and visualise the outcome, thru multiple dashboards. Nuvap analytics enable an easy overall evaluation of the IEQ, together with a detailed analysis per factor. Nuvap Index is the Indoor Environmental Quality Index, that ranges between 1 and 10 and takes into consideration all the monitored parameters and their characteristics.

Nuvap Nx Series

Nx Series are reliable and compact multi-sensor devices, integrated in Nuvap cloud platform. The main features are:

- ▶ up to 20 monitored parameters
- ▶ up to 3 hours Battery Backup
- ▶ up to 60 days embedded data storage
- ▶ Made in EU

A complimentary manual water test allows to check 6 drinkable water parameters

Connectivity

Data monitored by Nx Series are conveyed to Nuvap Platform thru a standard WiFi connection. Supported WiFi standards are 802.11 b/g 2.4 GHz. NPOE devices also support 3G and POE+ connectivity. This part number is built on order.

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

The Technology

Nuvap's technology is protected by international patents, relating to the exclusive combined and constant monitoring system for polluting agents, which may be present in the spaces where people spend regularly their time.





ELECTROMAGNETIC FIELDS
High Frequency



ELECTROMAGNETIC FIELDS
Low Frequency



RADON GAS



IONIZING RADIATION



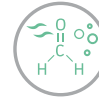
WiFi



CO



Methane
(CH₄)



VOC



AIR QUALITY
H₂, H₂S, Alcohol, NH₃
Etanolo, Toluene



DUST AND SMOKE



NOISE POLLUTION



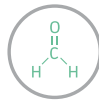
WATER QUALITY
Chlorine, hardness, alkalinity
Ph, nitrite and nitrate



TEMPERATURE



HUMIDITY



FORMALDEHYDE



AIR PURITY

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
 Dimensions (mm): 183x183x80
 Weight (Kg): 0,78
 Deployment: Indoor

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
 Ionising 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
 Formaldehyde
 Air Purity (CO₂ relative)
 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

Safety

CEI EN 61010-1
 EMC EN 61326

Restrictions on Hazardous Substances (RoHS) Compliance

RoHS compliant

HW Ordering Info

NVP104 N1Plus 20 parameters
NVP107 N1Radon 16 parameters
NVP108 N1Basic 15 parameters
NVP106 N0Radon 3 parameters
NVPN105 N1POE 20 parameters with POE+/3G

Others

NVP106_UP N0Radon upgrade license
NVP_CRPER Report by an Environmental Engineer
NVP_CCALY Calibration - 1 device
NVP_CWAR1Y 1 Year Warranty Extension
NVP_DATA1Y Yearly Service Fee (NVP107, NVP106, NVP108)
NVP_DATA1Y_P Yearly Service Fee (NVP104, NVP105)

NVP_CSUBS1Y 1Y Cloud Admin
NVP_CSUBS3Y 3Y Cloud Admin