

ProSystem N1Pro



Connected multi-sensor device for indoor pollution monitoring.



- ▶ Monitoring up to 26 parameters
- ▶ Integrated in Nuvap Platform
- ▶ Nuvap Pro App (BTLE)
- ▶ 80sm coverage
- ▶ up to 3 hours Battery Backup
- ▶ WiFi Connectivity
- ▶ BTLE Connectivity
- ▶ 2 Years Warranty
- ▶ Made in Italy

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 people's health or safety — potentially can be found in nearly all places.

Nuvap is the first company enabling an easy monitoring of indoor environment factors.

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 about the average registered parameters.

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

Nuvap N1Pro belongs to Nx Series and has been specifically developed to allow short term monitoring in small locations (houses and SoHo). N1Pro can operate in two different modes:

- Full Check-up: 26 factors are monitored for at least a week
- Express Check-up: 25 factors (all except Radon Gas) are monitored for about 20 minutes.

Nuvap Pro App

N1Pro is complemented by Nuvap Pro App.

It is available for iOS and Android Operating systems (English and Italian).

the Pro App collects data via BTLE and sends them to Nuvap Platform, in order to generate pdf reports about the monitoring.

Reporting

Two different formats of report are available: a synoptic and concise one, for summarising the data collected via the express check-up and a comprehensive and detailed report, to illustrate the results of a weekly monitoring.

Connectivity

Nuvap Pro App communicated with the device via Bluetooth Low Energy 4.0.

No configuration is requested; the device has just to be paired.

N1Pro also supports WiFi connectivity, for long term installations.

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.





ELECTROMAGNETIC FIELDS
High Frequency



ELECTROMAGNETIC FIELDS
Low Frequency



RADON GAS



IONIZING RADIATION



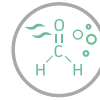
WiFi



CO



Methane
(CH₄)



VOC



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



DUST AND SMOKE



NOISE POLLUTION



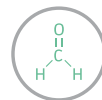
WATER QUALITY
Chlorine, hardness, alkalinity
Ph, nitrite and nitrate



TEMPERATURE



HUMIDITY



FORMALDEHYDE



CARBON DIOXIDE

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

Bluetooth Low Energy 4.0 standard

Platform uptime: 99,9%

Factors

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

App Pro

Operating Systems: Android and iOS

App Device: Smartphones

Languages: English and Italian

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

NVPN103

N1Pro 26 parameters

Accessories

NVP_CCALY Calibration - 1 device

NVP_CWAR1Y Warranty Extension

NPP_CWATREF Water test - refill