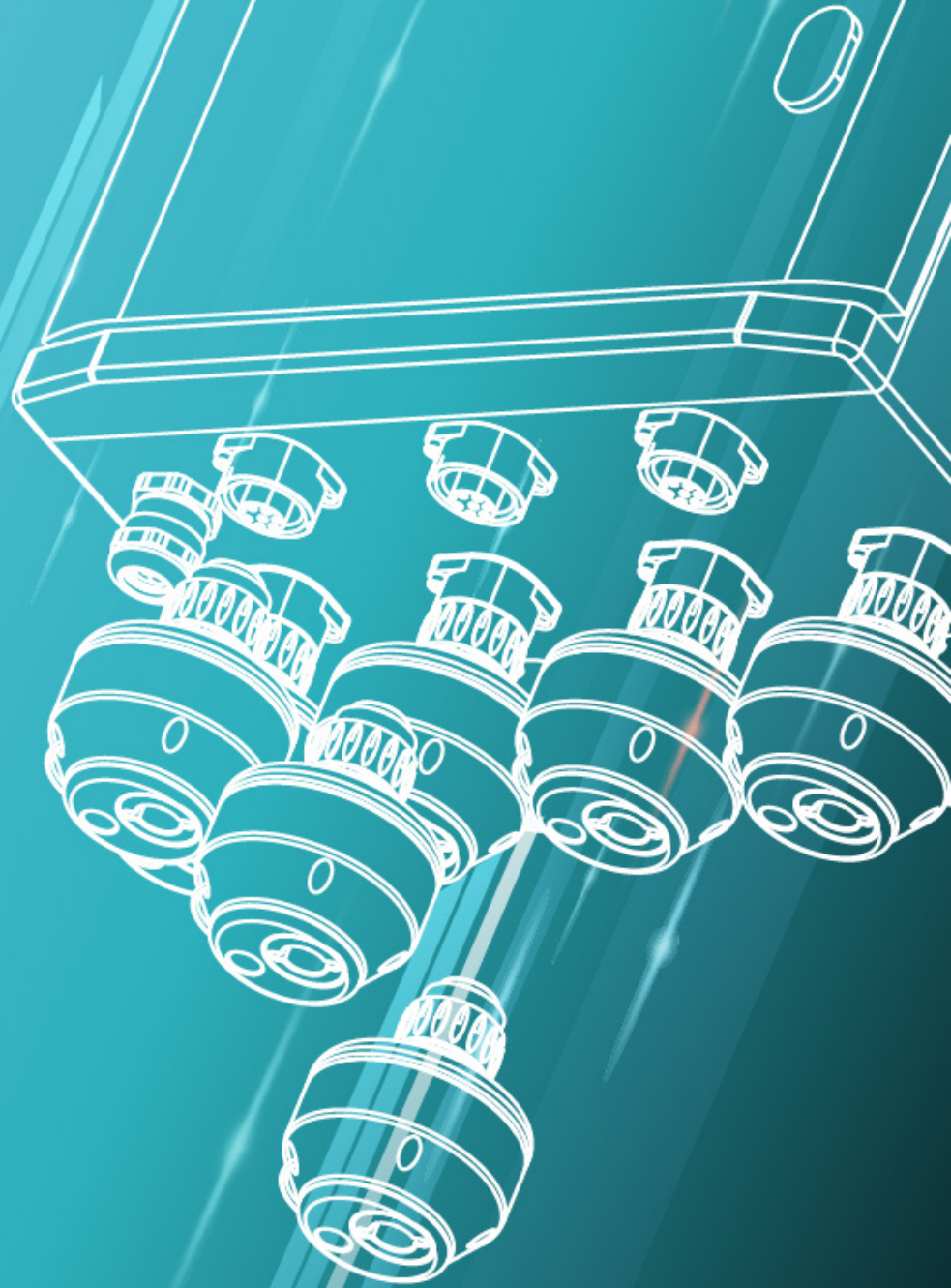


**ostara**

**AIR QUALITY**

**MONITORING STATION**



**nke**  
INSTRUMENTATION

# SOLUTION DEDICATED TO OUTDOOR & HARSH ENVIRONMENTS



# A MULTIFUNCTION SOLUTION

## Dedicated to outdoor and harsh environments

Robust IP66 IK10 box

Membrane to protect gas sensors from dust  
(can be replaced on site without tools)

Wide temperature range

Robust connectors

Corrosion resistant

## Environmental indices

Dew point  
Freezing point  
Windchill  
Humidex  
Air quality index

## Weather information

Wind  
Temperature  
Atmospheric pressure  
Relative humidity

## Water quality

WiMo multiparameter sonde  
Remote via RS485 bus

## Fine Dust

PM1 / PM2.5 / PM10

## Gases & Odours

Interchangeable sensors on site  
Automatic detection  
Integrated compensation in T°

## Power supply

Solar autonomy (PV & battery)  
Backup mains power (230VAC & battery)

## Installation accessories

Mounting brackets (box and PV) for installation on:  
Poles, Fences, Walls

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# ostara MONITORING STATION

**POLE OR WALL  
SUPPORT**

**AUTONOMOUS SOLAR  
POWER SUPPLY**  
or 230VAC

**WIRELESS  
PROGRAMMING**  
intuitive and easy-to-use  
interface

**MODBUS INTERFACE FOR  
WiMo SONDE**

**AUTOMATIC  
RECOGNITION  
OF SENSORS**



**IP66  
ROBUST BOX**

**FTP/SNTP  
TRANSMISSION**  
2G / 3G / 4G

**POINT-TO-POINT  
WI-FI**

**PARTICULATE MATTER,  
TEMPERATURE,  
HUMIDITY  
AND PRESSURE**  
integrated into the box

**INTERFACE FOR  
ULTRASONIC  
ANEMOMETER**

**RANGE OF SMART  
& PLUG'N PLAY GAS SENSORS  
T° & RH COMPENSATION**  
easily installed  
in any location!

## EMBEDDED WEB INTERFACE



# SPECIFICATIONS

PHYSICAL FEATURES	MECHANICAL FEATURES	TRANSMISSION	TEMPERATURE
<b>Dimensions</b> Width x Depth x Height <b>300 x 210 x 485 mm</b> Waterproof <b>IP66</b> Impact resistance <b>IK10</b> Weight <b>5 kg (without battery)</b> <b>9 kg (with battery)</b>	Fibreglass-reinforced polyester  Class II insulation  Corrosion resistant  Wall or pole fixing	<b>Communication</b> <b>FTP / SMTP</b> <b>2G / 3G / 4G LTE</b>  <b>Local access</b> <b>Wi-Fi</b> Embedded web interface for parameters setting and data visualisation	Operating temperature <b>-20 °C / +55 °C</b>  Storage temperature <b>0 °C / +40 °C</b>
			POWER SUPPLY
			Autonomous solution: <b>PV + fixing support + lead battery</b> External power supply solution: <b>230VAC + lead battery</b>

# SENSORS RANGE

INTEGRATED PARAMETERS	RANGE	ACCURACY	RESOLUTION
<b>Temperature</b>	-20 à +55°C	±0.1°C	0.01°C
<b>Relative humidity</b>	0 - 100% RH	±1.5 %RH	0.01 %RH
<b>Atmospheric pressure</b>	300 / 1100 mbar	0.1 mbar @25°C	0.1 mbar
<b>PM Sensor</b>	PM1 / PM2.5 / PM10 0 -1000 µg/m³	<5% 3-point calibration	0.001 µg/m³
<b>GNSS</b>	lat./long./alt.	<4m (CEP-50)	0.000001°

EXTERNAL SENSORS	RANGE	ACCURACY	RESOLUTION
<b>Ultrasonic anemometer</b>	0.12 - 40 m/s 0-359 °	0.12 m/s 1 °	0.1 m/s 1 °
<b>WiMo</b> Multiparameter sonde	Sonde measuring water physicochemical parameters (temperature, pressure, conductivity, turbidity, pH, etc.). Remote control via RS485 Modbus cable.		

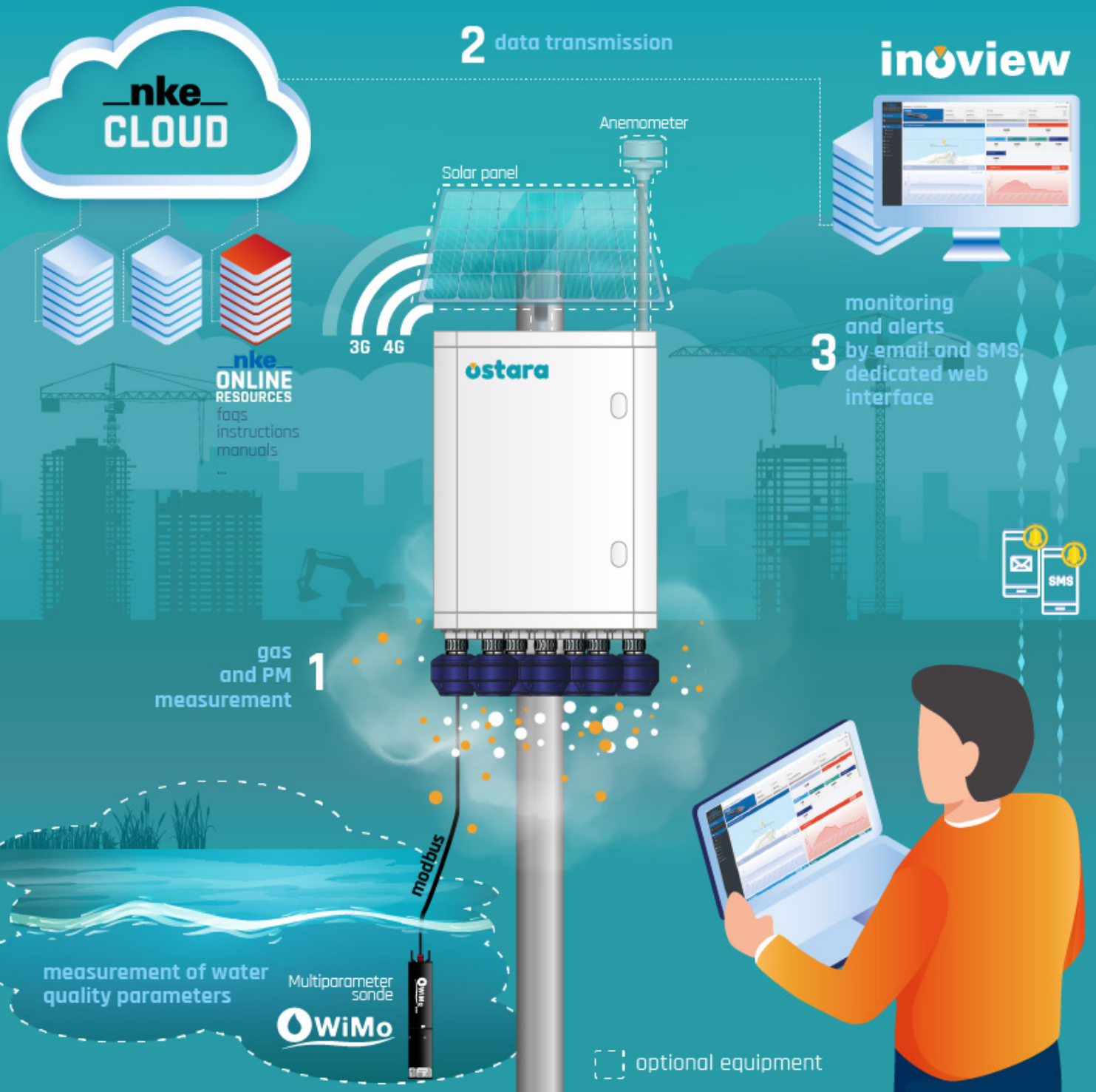
GAS(*)	STANDARD RANGE		COMPENSATION	ESTIMATED LIFETIME
<b>Carbon monoxide</b>	10 ppm (0.001 ppm)	11 mg/m³	Temperature	3 years
<b>Hydrogen sulfide</b>	10 ppm (0.1 ppm)	7 mg/m³	Temperature	3 years
<b>Ammonia</b>	100 ppm (0.1 ppm)	69 mg/m³	Temperature	2 years
<b>Nitrogen dioxide</b>	5 ppm (0.01 ppm)	9 mg/m³	Temperature	3 years
<b>Oxygen</b>	25 % (0.01 %)	n/a	Temperature	2 years
<b>Ozone</b>	5 ppm (0.001 ppm)	9 mg/m³	Temperature	3 years
<b>Sulfur dioxide</b>	50 ppm (0.1 ppm)	130 mg/m³	Temperature	3 years
<b>Volatile organic compounds (VOCs)</b>	10 ppm (0.01 ppm)	n/a	Temperature	3 years
<b>Odours</b>	10 ppm (0.1 ppm)	n/a	Temperature	3 years

\*Additional gases available on request (CH<sub>4</sub>S, HCHO, HCN, H<sub>2</sub>, PH<sub>3</sub>, Br<sub>2</sub>, ClO<sub>2</sub>, Cl<sub>2</sub>, F<sub>2</sub>, HCl, HF)

CALCULATED PARAMETERS	SIGNIFICATION	RANGE
<b>Dew point</b>	Condensation on surfaces with a temperature below the dew point	0 < Tr < 50 °C
<b>Freezing point</b>	Formation of ice crystals on surfaces below freezing point	T < 0°C
<b>WindChill</b>	Human body wind chill index	Air T < 10°C, Wind > 1m/s
<b>Humidex</b>	Heat sensation index on the human body	
<b>Air quality index</b>	Daily air quality index (France)	O3, SO2, NO2, PM10, PM2.5
<b>European air quality index</b>	Hourly air quality Index (Europe)	O3, SO2, NO2, PM10, PM2.5

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## ADAPTABLE SOLUTION



### SALES DEPARTMENT

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**INNOVATION & COMMITMENT**  
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