

KAPTA™ 2000 - AC4

In-line measurement of drinking water

WOULD YOU LIKE...

Monitor

the water quality at a critical point of your network and you dispose of a power supply source and local system for data transmission ?

Equip

remote areas (production, tank, monitoring points before a risk area...)?

Dispose

of this monitoring continuously and online ? Use the traceability of datas to dialogue with your interlocutors ?

Analyze

four key parameters of the water quality: chlorine, conductivity, pressure and temperature ?

Be informed

about any changes in the quality parameters for the water that you supply ?

Increase

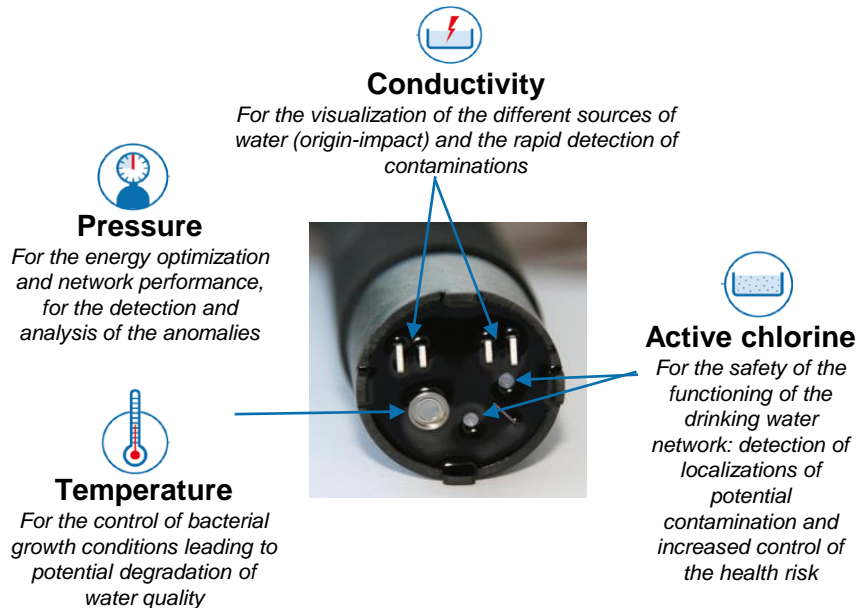
in the face of risk, monitoring of the network without increasing the residual chlorine ?

Benefit

from a reliable and simple system that does not require maintenance, energy or chemical reagents and has an unrivalled lifespan ?

Neroxis proposes the water quality measurement system designed around the KAPTA™ 2000-AC4 probe

The **KAPTA™ 2000-AC4** probe has been specially developed to form part of the drinking water treatment system. Easy to use, it is directly installed inside piping systems under load and it enables suppliers to effectively monitor the principal parameters of water quality.



Calibrated in factory, the **KAPTA™ 2000-AC4** probe doesn't need any connection to waste water, or chemical reactive, or recurrent preventive maintenance or any other calibration and doesn't generate lost water.

For operation teams, it integrates into a reliable, compact and proven system allowing a minimum of maintenance and connected with the local system for data transmission (MODBUS RS485). This innovative, modern and reliable solution offers expert real-time monitoring of water supply quality.

The Kapta™ 2000-AC4 system ensures a better control of the quality of the drinking water

General specifications

- Monitoring and control of drinking water
- **Measurement of active chlorine, conductivity, absolute pressure and temperature**
- Reagent free multi-parameter probe
- Miniaturized low power consumption sensor probe
- Long term stability > 1 year

Measured parameters

	Active chlorine	Conductivity	Absolute pressure	Temperature
Measurement range	0.00 – 2.55 mg/l	30 – 1305 μScm^{-1}	0 – 12.7 bar	0 – 76.5 °C
Measurement accuracy	± 0.03 ppm ; ± 5 %	± 5 μScm^{-1} ; $\pm 5\%$	at 25 °C : ± 50 mbar	± 1.2 °C
Resolution at communication output	0.01 ppm	5 μScm^{-1}	50 mbar	0.3 °C
Response time	< 30 s			

Operating condition

Operating pH range

- 7 – 8.2, a pH under 5 can damage the sensor's head irreversibly

Operating absolute pressure range

- 0 – 12.7 bar
- Overpressure: 30 bar (435 psi)

Operating temperature range

- 0 – 40 °C

Flow rate

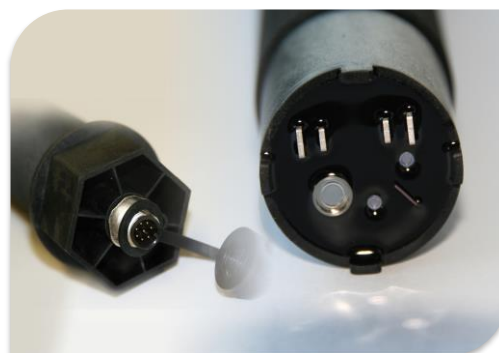
- Minimum 0.03 m/s
- Maximum 1.5 m/s (tested for 1 year)

PSU specifications

- Power supply 230/110 VAC
- Dimensions of the PSU (Power Supply Unit): 18 x 13 x 8.5 cm
- Protection rating: IP68
- Data logging by wire communication: output RS 485 MODBUS (measure every 1 min)
- Data reception: directly on your system of remote data transmission

Probe specifications

- **The Kapta™ 2000-AC4 probe has been designed to fit directly in a pipe** of nominal diameter ND > 60 mm for steel pipe and ND > 75 mm for plastic pipe (PVC/HDPE)
- Maximal diameter of pipe: ND 300 for steel pipe, ND 250 for plastic pipe (other diameters on demand)
- Dimensions of the probe: Length = 300 mm ; Diameter = 35 mm ; Weight = 410 g
- Thread 1"1/8 Gas, BSP Cylindrical
- Cable length: 5 m (standard), 15 m maximum (on demand)



NEROXIS

NEROXIS SA | Rue Jaquet-Droz 1 | CH-2002 Neuchâtel | SWITZERLAND
 Email: kaptadmin.vws@veolia.com | Tel: +41 32 720 57 57
www.neroxis.ch