

KAPTA™ 2000 - PTC

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 ?

Know

and control the hydraulics of your network ?

Optimize

the asset management of your networks by minimizing water hammers ?

Analyze

the course of the water from the production to the consumer thanks to the measurement of the conductivity ?

Alert

of the impact of any modification in the hydraulic parameters of your network ?

Benefit

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

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

The **KAPTA™ 2000-PTC** 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.



Conductivity

For the visualization of the different sources of water (origin-impact) and the rapid detection of contaminations



Pressure

For the energy optimization and network performance, for the detection and analysis of the anomalies

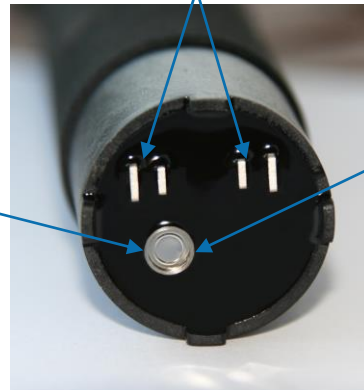
Pressure transients

For the management of water hammer and premature aging of pipes



Temperature

For the control of bacterial growth conditions leading to potential degradation of water quality



Calibrated in factory, the **KAPTA™ 2000-PTC** 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-PTC system monitors the network infrastructure (breakage, water hammer...)

General specifications

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

Measured parameters

	Conductivity	Absolute pressure	Temperature
Measurement range	30 – 1305 μScm^{-1}	0 – 30 bar	0 – 76.5 °C
Measurement accuracy	$\pm 5 \mu\text{Scm}^{-1}$; $\pm 5\%$	at 25 °C : ± 150 mbar	± 1.2 °C
Resolution at communication output	5 μScm^{-1}	120 mbar	0.3 °C

Pressure transients

Sampling period 10ms	Maximum transient pressure in bars
Duration of the transient in seconds	Minimum transient pressure in bars

Operating condition

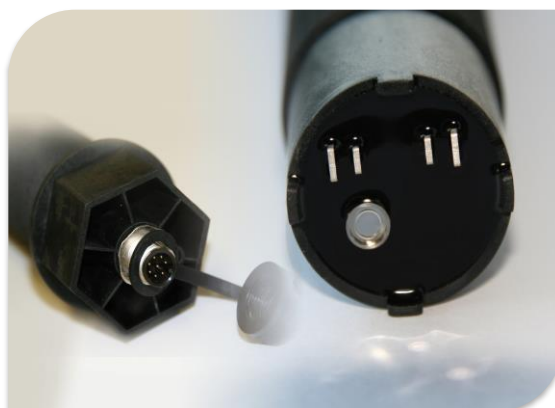
- Operating temperature range**
- 0 – 40 °C

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 minute)
- Data reception: directly on your system of remote data transmission

Probe specifications

- **The Kapta™ 2000-PTC 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

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