NEROXIS by VEOLIA

KAPTA™ 2000 - OT3

In-line measurement of drinking water

You have some or no chlorine on the drinking water network and you would 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

three key parameters of the water quality: organic matter, turbidity and temperature ?

Be informed

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

Control

the consequences of hydraulic shocks ?

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 chemical reagents and has an unrivalled lifespan ?

Neroxis proposes the water quality measurement system designed around the KAPTA™ 2000-OT3 probe

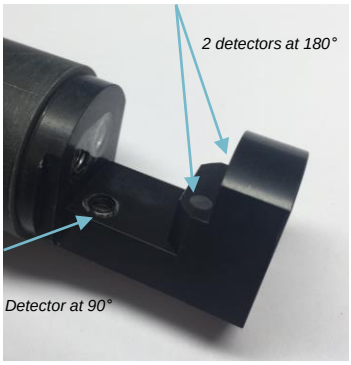
The **KAPTA™ 2000-OT3** probe has been specially developed to form part of the drinking water treatment system. Easy to use, it is directly installed inside piping systems under load and it enables suppliers to effectively monitor the principal parameters of water quality.

UV Absorbance at 254 nm

To monitor the evolution of organic matter, to deduce the changes of origin or nature and to highlight a possible pollution

Turbidity

To ensure a constant water quality in accordance with applicable regulations throughout the network



Temperature

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

Calibrated in factory, the **KAPTA™ 2000-OT3** probe doesn't need any connection to waste water, or chemical reactive, 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 tranmission (MODBUS RS485). This innovative, modern and reliable solution offers expert real-time monitoring of water supply quality.

The Kapta™ 2000-OT3 system ensures a better control of the quality of the drinking water

General specifications

- Monitoring and control of drinking water
- **Measurement of turbidity, organic matter and temperature**
- Reagent free multi-parameter probe
- Miniaturized low power consumption sensor probe
- Quarterly predictive maintenance

Measured parameters

Turbidity
- Nephelometry measurement at 525 nm
- Correction of fouling by ratiometry (dual-beam)
- Lighting by LED
- Range: 0 to 10 NTU
- Measurement accuracy: 0.3 NTU
- Resolution: 0.1 NTU
- Response time: < 30 secondes

Organic matter
- UV absorbance at 254 nm
- Lighting by LED UV
- Possible conversion in mg of carbon per liter
- Range: 0 – 0.3 cm^{-1}
- Measurement accuracy: 0.01 cm^{-1}
- Resolution at the output of communication: 0.01 cm^{-1}

Temperature
- Range: 0 – 40 °C
- Measurement accuracy: ± 0.5 °C
- Resolution: 0.2 °C

Operating condition

Operating absolute pressure range
- 0 – 16 bar
- Overpressure: 30 bar (435 psi)

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

Probe specifications

- **The Kapta™ 2000-OT3 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 = 320 mm ; Diameter = 35 mm ; Weight = 550 g
- Thread 1”1/8 Gas, BSP Cylindrical
- Cable length: 5 m (standard), 15 m maximum (on demand)

NEROXIS

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