

Water Quality Monitoring

The most often monitored components are:

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|------------------|------------------|-------------------------------|-----------------|
| COD | BOD | TOC | hydrocarbons |
| pH | temperature | redox | conductivity |
| dissolved oxygen | particles | iron | manganese |
| heavy metals | phosphates | nitrates | NH ₃ |
| pfenols | sulphates | toxicity | natrium |
| cyanides | H ₂ S | N ₂ H ₄ | silicates |
| chlorine | level measuring | coagulants distribution | AOX |

Analyzers are useful in the following applications by its instruments:

- surface water
- drinking water production
- waste water treatment plants
- sewerage systems
- water in technological processes
- underground water
- waste storage monitoring
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The new revolutionaly immersion flow spectrometric analyser that is assigned for a wide range of continual, processing or portable applications. This maintenanceless instrument operates on optical principle and does not need any chemicals, calibration and interventions. It covers concentrations ranging from micrograms up to grams per a liter.



The usual applications are:

- organic pollution monitoring expressed as COD, TOC, BOD, oil in water, turbidity, colour, nitrates, nitrites, etc.
- warning systems against to terroristic attacks for distribution of drinking water. Instrument during several seconds records even an extremely low concentration of toxic components.
- mineral - oil reduction monitoring water purity monitoring for technological processes (pharmaceutical production, boiler water...)

The instruments for process level monitoring, temperature and conductivity of underground water with possibility of data recording or data transferring.



The submersion miniature analysers of pH, ORP, DO, conductivity, turbidity, chlorophyll, penetration of photosynthetic radiation, nitrates, ammonia, and chlorine.

Monitoring of pH, conductivity and dissolved oxygen for waste water treatment plants.



The calorimetric, titrating and potentiometric analysers for pollution monitoring by using methods which are in compliance with standard laboratory procedures.





The online refractometers for monitoring of concentration of optional compounds in water solutions (acids, sugar, lixivium, etc.).

The combined analyzer for on-line monitoring of total nitrogen, nitrite, total phosphor and phosphates.



The toxicity and BOD analysers using respirometrical methods.

The portable and stationery water and sludge samplers with sample extraction to chilled bottles with possibility setting of optional procedures (including self-draining procedure).



The heavy metal analysers from trace concentrations on level of ppb up to high concentrations in technological sludges.

The analysers of toxicity and content of water grass in drinking water using methods which are in compliance with standard water methods. All instruments use digital technology of image detection.

