



BACTcontrol

ONLINE MONITORING OF
SPECIFIC (E-COLI, COLIFORMS,
ENTEROCOCCI) AND TOTAL
BACTERIAL ACTIVITY IN WATER

APPLICATIONS

Wastewater treatment plant
(follow-up disinfection process, final control, ...)

Drinking water station
(pumping station, monitoring process, final
control, ...)

Agro-food, pharmaceutical industry:
securing water resources

Re-use: monitoring bacterial activity
before reuse

ADVANTAGES



- Enzyme activity monitoring and concentration up to 2 parameters: E-coli, Coliforms, Total bacterial activity, Enterococci.
- Up to 2 sample measurement channels.
- Automatic cleaning function.
- Optimal measurement frequencies: 1 hour.
- Analog output (4-20 mA), Modbus TCP/Serial, 2 relay outputs.

BACTCONTROL: MEASURING PRINCIPLE

The measurement principle is based on fluorescence measurement of specific enzyme activity.

BACTcontrol is an automated on-line instrument for the detection of microbiological activity in water. It measures the specific enzymatic activities of β -galactosidase (coliforms), β -glucuronidase (E.coli), β -glucosidase (enterococci) and alkaline phosphatase (total activity, biomass) as indicators of bacterial contamination. Enzymatic activity is detected by adding reagents (consumables) that contain a fluorescent indicator. The reagents are specific to the substrate of the enzyme to be detected, meaning that fluorescence will increase when the corresponding enzyme is present in the sample.

BACTcontrol is an "early warning system" that complements officially accepted methods for detecting microbiological activity. Measurements are carried out in a short period of time (1-2 hours), unlike conventional microbiological methods, which are labour intensive and in which culture of organisms is necessary, taking several hours before obtaining reliable results (24-48h).

