

Measuring of TOC for Effluent Control

AT THE WASTEWATER TREATMENT PLANT REGENSBURG

The spectral sensors of WTW

Carbon and nitrogen parameters can be measured easily and without the use of chemicals by means of the optical method of the UV-VIS and UV sensors. Steps such as sampling and sample preparation, which usually take a lot of time, are omitted.

Another advantage is the integrated, maintenance-free ultrasonic cleaning system, which minimizes the manual cleaning effort for almost all applications.

With this, parameters like COD and TOC, which are otherwise elaborate and expensive to determine, can be measured in the simplest way, as shown by the following practical example:

Measuring the TOC for effluent control

The wastewater treatment plant Regensburg comprises 400,000 p/e and measures the total organic carbon (TOC) to control their outlet. In the past, this parameter was defined by means of an online analyzer. As this analyzer was outdated, a new device had to be purchased. In the middle of 2012, Xylem provided a trial with a NiCaVis® 705 IQ. In addition to TOC, this multiple sensor can measure other parameters such as COD, BOD and nitrate.



Installation of the spectral sensors (bottom right) with the controller MIQ/TC 2020 XT (top left).

“I am very satisfied with this sensor”

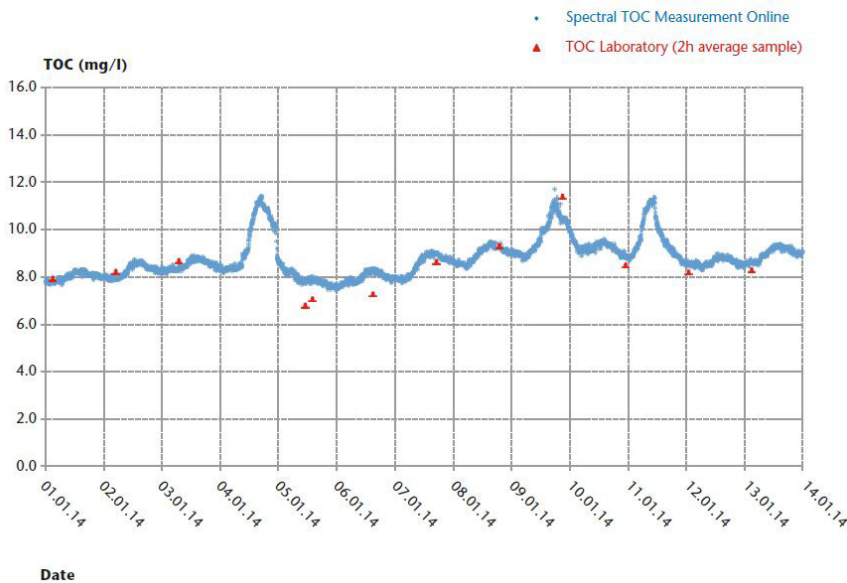
Easiest handling with highest measuring reliability

In the beginning of 2013, the wastewater treatment plant decided to purchase the sensor. According to the laboratory manager, Mr. Nuber, mainly the significant work-relief along with accurate measuring results was a deciding factor for the Xylem probe. Interfering influences such as turbidity are compensated by the evaluation of the entire spectrum, which yielded reliable measured values. This is confirmed by the daily laboratory measurements. The maintenance-free ultrasonic cleaning technology without wear parts reduces the need for manual cleaning and the operating costs to a minimum. "I'm very satisfied with this sensor" is the conclusion drawn by Mr. Nuber.



Wastewater treatment plant Regensburg
- TOC measurement in the drain

Wastewater Plant Regensburg TOC Measurement in the Effluent



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