

LAR
PROCESS ANALYSERS AG

Company Profile

LAR Process Analysers AG was founded in 1986 as a customer-oriented company with the corporate objective to develop, manufacture, and distribute technically advanced instrumentation for environmental measurement and related services. The major proportion of the product range is self-developed, continuously operating water analysers used for process control, pure water analysis as well as industrial and municipal waste water technology.



In 1989, the company achieved a special award from the State of Berlin for environmental technology, specifically for the EloxMonitor, an on-line analyser for the determination of the chemical oxygen demand (COD). Ever since, the customer-oriented development of innovative products has been cultivated as the core of our company's philosophy. In 1996, LAR received a combined special award for environmental engineering by the Federal States of Berlin and Brandenburg for the NitritoxMonitor®.

LAR Process Analysers AG gained world-wide recognition among others with analysers for measurement of TOC (→ [QuickTOC®](#)) and COD (→ [QuickCOD®](#) or → [Elox100](#)). These analysers stand out for the accuracy and precision of their measurements, their low costs of ownership and their long durability.

In 2006 LAR Process Analysers AG celebrated the remarkable success of developing its 21st product in 20 years with the → [QuickTOC® effluent](#). This achievement was made possible by the hard work of all members of staff, of whom LAR is rightly proud.

Today, more than 40 people are employed at the Berlin headquarters alone and more than 40 distributors around the world ensure a close and reliable customer service. As the market is constantly changing new products will definitely follow.

Selected references are to express a philosophy of the company which, beside highest quality of innovative technical achievements, especially aims at conceiving ideal and specific solutions, in co-operation with the customer.

LAR Process Analysers AG operates worldwide and has a well-expanded network of distributors in more than 40 countries on all continents at its disposal. There are close sales and distribution contacts with almost all Western European countries and another main focus of the company is to open the East European market systematically.

As a result of LAR's international business activities, highest attention is paid to the quality of the products and services. Consequently, this orientation towards surpassing quality of our products and services culminated in the introduction of Total Quality Management (TQM) for the whole company. In 1995, LAR Process Analysers AG was certified DIN EN ISO 9001 and later DIN EN ISO 9001 2000 by the German TÜV.



On-line TOC Analysers

QuickTOC®



The QuickTOC® of LAR Process Analysers AG is an on-line measuring system for the determination of total carbon (TC), total organic carbon (TOC), total inorganic carbon (TIC) and dissolved organic carbon (DOC) according to DIN EN 1484, ISO 8245 and EPA 415.1. The QuickTOC® is suitable for almost every TOC measurement in sewage treatment and industrial waste water application. Typical on-line applications are plant effluent monitoring, waste water treatment (influent and effluent water) and detection of organic spills and product loss (e.g. in chemical, petro-chemical and food processing plants).

QuickTOC® effluent



The QuickTOC® effluent of LAR is an on-line measuring system for the determination of total carbon (TC), total organic carbon (TOC) and dissolved organic carbon (DOC) according to DIN EN 1484, ISO 8245 and EPA 415.1. The QuickTOC® effluent is suitable for almost every TOC measurement at the effluent of industrial and municipal waste water treatment plants. Typical on-line applications are the combined effluent monitoring of TOC and TN_b in one single analyser. As a result the maintenance efforts will be reduced significantly compared to multiple analysers operation.

QuickTOC[®] loop

The QuickTOC[®] loop of LAR Process Analysers AG is an on-line measuring system for the determination of total carbon (TC), total organic carbon (TOC), total inorganic carbon (TIC) and dissolved organic carbon (DOC) according to DIN EN 1484, ISO 8245 and EPA 415.1. As industries become increasingly dependent on pure water, on-line TOC analysis has become the preferred (and often required) method to validate purity and protect against contaminants that threaten expensive systems, public safety and product quality. The QuickTOC[®] loop easily satisfies the most stringent TOC monitoring requirements wherever pure water is produced or consumed. Some examples include Water for Injection (WFI) in Biotech and Pharmaceutical, boiler condensate reclaim in the Power industry, RO and DI water for the Microelectronics industry, and Municipal Drinking Water Treatment.



QuickTOC[®] purity

QuickTOC[®] purity of LAR Process Analysers AG is an on-line measuring system for the detection of total organic carbon (TOC) in pharmaceutical water particularly for "Highly Purified Water" (HPW) and "Water for Injection" (WFI), according to USP Chapter 643 and EP 2.2.44. The TOC measuring system QuickTOC[®] purity was designed in cooperation with customers from the pharmaceutical industry in consideration of their special requirements. In addition to general requirements, the accuracy of the measuring results was especially focused upon. This can be guaranteed by using the patented LAR high-temperature method (1200°C).



QuickTOC[®] uv

The QuickTOC[®] uv of LAR Process Analysers AG is an on-line measuring system for the determination of total carbon (TC), total organic carbon (TOC) or dissolved organic carbon (DOC) according to USEPA Standard Method 5310C.



QuickTOC[®] condensate

The calibration and validation of the TOC analysis calibration function for measurement ranges of 0-2.000 µg/l, is usually a very difficult task for the operator. Using the newly developed „gas calibration“, a patent pending method from LAR, this procedure has been significantly simplified. QuickTOC[®] condensate works without the usual contamination risk and has no need for a calibration solution. Even within the lowest measuring ranges the calibration can easily be performed with the calibration gas and afterwards also verified with it.



COD Analysers



[QuickCOD®](#)

The QuickCOD® of LAR Process Analysers AG is an on-line measuring system for the determination of the chemical oxygen demand (COD) by thermal combustion, within a minute, even in difficult sample matrices. The QuickCOD® is suitable for almost every COD measurement in sewage treatment and industrial waste water application. Typical on-line applications are plant effluent monitoring, waste water treatment (influent and effluent water) and detection of organic spills and product loss (e.g. in chemical, petro-chemical and food processing plants).



[Elox100](#)

By using "State of the Art" manufacturing materials and techniques the Elox100 of LAR Process Analysers AG offers performance previously only available from the most expensive on-line analysers. Using the same LAR measuring principle, the Elox100, designed and built on the worldwide success of the EloxMonitor, offers an economical alternative for on-line Cod measurement.



[Elox100plus](#)

The Elox100 series was designed to have low operating and service cost. For example, all models have a self-cleaning measurement cell, automatic calibration and a power consumption of less than 50 watts.

BOD Analysers



[BioMonitor®](#)

The BioMonitor® from LAR Process Analysers AG is suitable for many different applications, e.g. for fast and reliable load ratio documentation of the influent and effluent of any plant with the aid of either the BOD concentration or the BOD load, for controlling the denitrification at the effluent of any plant by exact dosing of the waste water as carbon source, for adjustment of a constant sludge load by calculating the amount of return sludge with help of the known concentration of biological degradable substances, present at the influent, for water monitoring at water quality monitoring stations.

[Sludge Recycling](#)



The unique measurement system of the BioMonitor® from LAR Process Analysers AG with the original activated sludge performs optimally when a permanent activated sludge supply (for example from the aeration tank) is provided. Whenever there is no continuous activated sludge supply available, the BioMonitor® with Sludge-Recycling is the right choice.

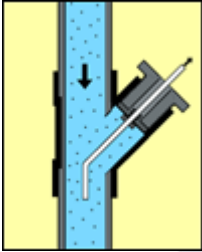
TN_b Analysers



QuickTON_b

The QuickTON_b of LAR Process Analysers AG is an on-line measuring system for the determination of total nitrogen (TN_b) according to DIN 38409 part 27, ENV 12260 and ISO - TR11905-2. The QuickTON_b is suitable for almost every TN_b-measurement in process control or sewage and industrial waste water application. Typical on-line applications are control of the production (e. g. the chemical and petrochemical industries) and monitoring the influent and effluent of both industrial and municipal waste water treatment plants (WWTP).

Sampling



FlowSampler

With the optionally and separately available FlowSampler, you can keep your sample preparation filter-less and maintenance-free.

