Technical Data

Measurement and Sample Preparation

Type of measurement: COD measurement by electrochemical oxidation

Measurement range: Ranging from 1 - 100 to max. 1 - 100.000 mg/l COD

Accuracy: 5 %
Repeatability: 5 %
Response time: 30 sec (application dependent)

Measurement cycle: 2 min. (application dependent)

Sample preparation: Maintenance-free particle separator "Flowsampler"

Operation and Data Output

Graphic-LCD-screen, high resolution, back-lit
Autostart-Function
Self-explaining software including maintenance checklists
and support
Industry-standard data interface

Data storage on flash card

Connections

| Waste water, drain: | Tube 30 mm ID or threaded |
|---------------------|--------------------------------------|
| | 32 mm OD or as specified |
| Electrical power: | 230 / 100 V~, 50 / 60 Hz, 50 VA |
| Analog output: | 0/4 - 20 mA |
| Serial interface: | for data transfer and remote control |
| | Malfunction Alarm, Life-Zero |
| | Connection for printer |
| Remote control: | via TCP/ IP protocol (internet) |

Protection Class, Dimensions and Weight

| Elox100: | Steel cabinet IP 55 (NEMA 13) |
|---------------|--------------------------------------|
| Elox100 plus: | Stainless steel cab. IP 65 (NEMA 4x) |
| Dimensions: | 600 x 600 x 420 mm (W x H x D) |
| | (23.6 x 23.6 x 13.7 inches WxHxD) |
| Weight: | 45 ka |

The information and the illustrations in this brochure on appearance, service, measure, weight, consumption, maintenance times and so forth, are not binding and only an approximate description. It does not assure guaranteed qualities. This product description corresponds to the state of printing. Deviations in design, tint, as well as changes of the scope of delivery remain reserved. Version Elox-2 E 38 11

If you require more information about our products e. g. for on-line TOC, TN_b , TP, COD, BOD, ammonium or toxicity measurement, please call us.

We are happy to advise you!

The TOC Company



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Measurement of COD in two minutes!

- Elox100
- Elox100 plus

Continuous Short- Time COD Measuring Systems

- For waste water treatment and process control
- Fast, precise and accurate
- Minimal maintenance



The TOC Company

The economical solution to sensitive and fast COD determination

By using "State of the Art" manufacturing materials and techniques the Elox100 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.

For this, the Elox technique, a worldwide patented electrochemical method has been developed by LAR, which, by the action of an electrical current on an electrode, produces OH-radicals as the oxidizing agent.

By using the newly developed difference method the influence of chloride will be completely eliminated.

- No hazardous reagents
- No dangerous user exposure

The method requires no caustic or other endangering substances. No cleaning solutions or hazardous reagents are required to be used or disposed of.

The result is the highest operational safety and outstanding uncomplicated operation.

Easy to operate and reliable

Every available software function is screen help supported, in addition to the operation manual which gives information in relation to routine operation and servicing. Data can easily be transferred to disk or via serial or parallel interface to a measuring station for further processing or remote control.

The **Elox100** resumes normal operation after power loss and stores all previous data in memory.

For industrial and municipal waste water treatment plants (WWTP)

The **Elox100** is suitable for almost every COD measurement in sewage treatment and industrial applications.

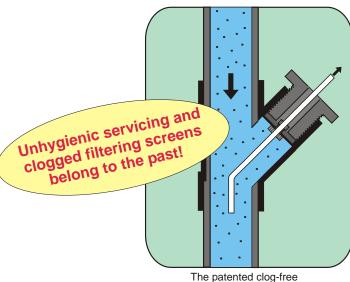
The ranging allows the determination of COD values between 1 and 100,000 mg/l. This extremely wide measuring range fully cover the needs for monitoring and process control.

Moreover, thousends of users from very different industries trust in the Elox100. world-wide.

Maintenance- and filtration-free sample preparation

The patented sample preparation system "Flow Sampler" works filtration-free as the sample is taken in the centre of the sample stream against the direction of the main flow.

Thereby, all large particles are reliably removed. Smaller solid matter particles will however be sampled, so that a representative sample reaches the Analyzer.



CERT

NEW FEATURES

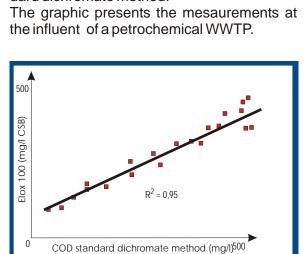
graphic screen, flash card, more storage

sample preparation system "FlowSampler"

FlowSampler masters even the most difficult tasks; for example, sampling at sewage works influents before the coarse screen!

Accurate COD measurement with good correlation to standard method

The electrochemical measuring principle delivers directly an electrical measuring signal. This gives good correlation with the standard dichromate method.



Good correlation -Elox100 with the standard dichromate method

Instant "Spike" detection

The great advantage of the system is that within minutes of delivering a sample the measured COD value is available.

The sensitive and fast measurement guarantees the successful operation of the **Elox100** as a useful measuring instrument in municipal and industrial process control.

Actual oxidation in seconds

The crucial advantage of the Elox100 is the oxidation of all water components in short time. Different from photometric measurement systems an actual oxidation happens. A falsification of values due to coloration or turbidity (e.g. in chemical industry or paint production) cannot occur.