



PROCESS ANALYSERS AG



DIN EN ISO 9001:2000
Zertifikat: 01 100 5122

Product catalogue LAR Process Analysers AG

All OnLine-Analytical systems made by LAR are designed for a complete automatically and continuously monitoring for process water, waste water, river water monitoring and especially for applications in the chemical and refinery industry.

Typical industries for LAR online-system applications are as follows:

Petrochemical industry	Pure water
Refinery	Boiler feed water
Automobile	Condensate
Airports	Drinking water
Pharmaceutical	High salt applications
Food and Beverage	River water
Brewery	Low measurement ranges
WWTP	High measurement ranges
Coal- and Mining-Industry	Process monitoring
Power plants	Waste water
Disposal industry	Environment protection
Diary industry	High temperature combustion
Pulp and paper	UV-Measurement method
	Electro-chemical methods

LAR Online Systems without required filtration are available for measuring the following parameters:

TOC, TC, TIC	total organic carbon, total carbon, total inorganic carbon
DOC	dissolved organic carbon
TOD	total oxygen demand
TN_b	total nitrogen
TP	total phosphor
COD	chemical oxygen demand
BOD	biological oxygen demand
Toxicity	toxicity monitoring

LAR-Products assigned to applications

Applications

Pure water

- Boiler feed water
- low measurement ranges
- Pharmaceutical process water
- Condensate



QuickTOC_{loop}
QuickTOC_{condensate}
QuickTOC_{uv}
QuickTOC_{purity}

Process water

- Drinking water
- Cooling water
- Condensate
- Process water



QuickTOC[®]
QuickCOD_i
QuickTOC_{loop}
QuickTOC_{effluent}
QuickTOC_{condensate}
Elox100
BioMonitor
QuickTOC_{uv}
FlowSampler

Waste water / River water




- River water
- wide measurement ranges
- high content of particles and flakes
- Environmental process water







QuickTOC[®]
QuickTON_b
QuickCOD_o
QuickCOD_i
QuickTOC_{effluent}
QuickTON_p
Elox100
BioMonitor
QuickTOC_{uv}
FlowSampler

LAR-Products





listed according to all different analysers

LAR Analyser	Brief description / Methods	Measurement Range
<p>Without catalysts</p> 	<p style="text-align: center;">QuickTOC®</p> <ul style="list-style-type: none"> ● TC, TIC, TOC monitoring ● for difficult applications, high polluted with particles and fluctuating measurement concentrations ● High temperature combustion, 1.200°C ● TN_b measurement can be combined on demand 	<p style="text-align: right;">0,1 - 200 ppm 5 - 4.000 ppm 100 - 50.000 ppm</p>
<p>Without catalysts</p> 	<p style="text-align: center;">QuickTOC_{effluent}</p> <ul style="list-style-type: none"> ● TC, TOC monitoring ● designed for WWTP effluent application ● High temperature combustion, 1.200°C ● not sensitiv for sludge influence ● low level of maintenance 	<p style="text-align: right;">0,1 - 200 ppm</p>
<p>Without catalysts</p> 	<p style="text-align: center;">QuickCOD_o</p> <ul style="list-style-type: none"> ● TOD/COD monitoring ● real oxygen demand determination by high temperature combustion method (1200 °C) combined with oxygen sensor detection ● TN_b measurement can be combined on demand <p style="text-align: center;">no correlation necessary!</p>	<p style="text-align: right;">1 - 100 ppm 100 - 200.000 ppm</p>

ppm ≙ mg/l
ppb ≙ µg/l

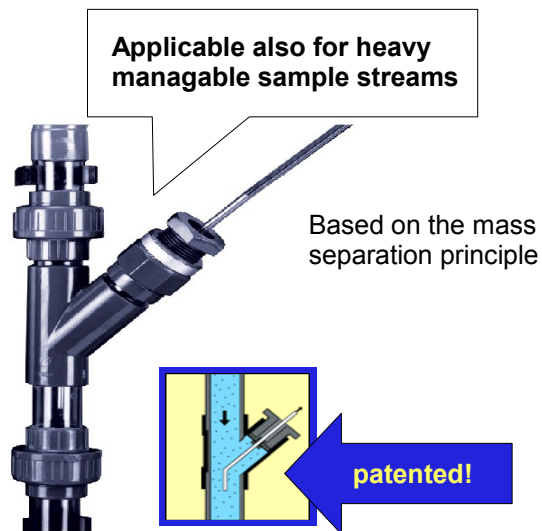
LAR Analyser	Brief description / Methods	Measurement Range
<p>Without catalysts</p> 	<p align="center">QuickTON_b</p> <ul style="list-style-type: none"> ● TN_b monitoring by using an electro-chemical determination method ● high temperature method, 1.200°C 	<p align="center">0,1 - 50 ppm 10 - 200 ppm</p>
<p>Without catalysts</p> 	<p align="center">QuickTON_p</p> <ul style="list-style-type: none"> ● TN_b and TN_p determination in a simultaneously measurement method ● high temperature method, 1.200°C 	<p align="center">0,1 - 50 ppm TN_b 0,01 - 4 ppm TP</p>
<p>Without catalysts</p> 	<p align="center">QuickTOC_{purity}</p> <ul style="list-style-type: none"> ● TOC, TC monitoring ● low measurement range analyser ● low level of maintenance ● high temperature method, 1200 °C 	<p align="center">10 - 1.000 ppb</p>
<p>Without catalysts</p> 	<p align="center">QuickTOC_{loop}</p> <ul style="list-style-type: none"> ● TOC, TC monitoring ● high temperature method, 1200 °C ● low level of maintenance ● TN_b measurement can be combined on demand 	<p align="center">20 - 2.000 ppb 0,1 - 10 ppm 2 - 200 ppm 5 - 1.000 ppm 500 - 20.000 ppm</p>

ppm ≙ mg/l
ppb ≙ µg/l

LAR Analyser	Brief description / Methods	Measurement Range
<p>Without catalysts</p> 	<p align="center">QuickTOC_{condensate}</p> <ul style="list-style-type: none"> ● TOC, TC monitoring ● designed for measuring condensate and boiler feed water in power plants ● high temperature method, 1.200°C 	<p align="center">0 - 5 ppm</p>
	<p align="center">Elox100</p> <ul style="list-style-type: none"> ● fast COD monitoring by using an electro-chemical method ● very high oxidation potential 	<p align="center">1 - 100 ppm 1 - 100.000 ppm</p>
	<p align="center">BioMonitor</p> <ul style="list-style-type: none"> ● continuously BOD monitoring ● monitoring of sludge self respiration ● operates with sludge, coming from the WWTP (the analyser works as a small WWTP) ● co-determination of toxicity 	<p align="center">1 - 50 ppm 1 - 200.000 ppm</p>
	<p align="center">QuickTOC_{uv}</p> <ul style="list-style-type: none"> ● continuously TOC monitoring by using the UV-persulfate method for particle-free samples ● low level of maintenance ● COD measurement as an option ● fast response time 	<p align="center">50 - 500 ppb 1 - 50 ppm 50 - 300 ppm 100 - 500 ppm</p>

ppm	≅	mg/l
ppb	≅	µg/l

FlowSampler - Maintenance free sampling system



We would be pleased to help you with your requests. Please contact us.

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