

Seawater Analyzer



- › **Automated Sea Water Analyzer**
- › **Reduce Test Times**
- › **Ideal for low level analysis**
- › **Save on Reagents**
- › **Free your Operators' Time**
- › **Easy to Use**

Powered by EasyChem

Automate Your Testing

- › Run up to 60 tests per hour
- › Test up to 5 parameters at a time
- › No experience required
- › Low reagent consumption
- › Pre-programmed with EPA and ISO methods
- › 50 mm extended flow cell
- › User friendly software

Our newest generation of automated seawater analyzers are easy to use and maintain and are designed with an extended flow cell for low level analysis.

Our analyzers free the operator to attend to other duties around the lab. After setting the protocol, the operator is free to leave the instrument unattended while it runs up to 60 tests per hour.

It comes pre-programmed with the standard EPA and ISO Seawater methods. We provide a complete training on both the instrument, software and reagent preparation during installation. Each of our instruments comes backed by the Blue Sun Guarantee. (see page 3)

Manufactured by Syntea S.p.A.

EPA Award Winning Manufacturer

See Page 4 for Details



Parameters

Aldehydes	Chlorides	Harness	Nitrite	Sulfate
Alkalinity	Chlorine	Iron	Phenols*	Sulfide
Aluminum	Chromium 6+	Manganese	Phosphate	TKN*
Ammonia	Cyanide*	Nitrate + Nitrite	Silicate	Total Phosphorous*
Calcium	Fluoride	*Require external sample pre-treatment		

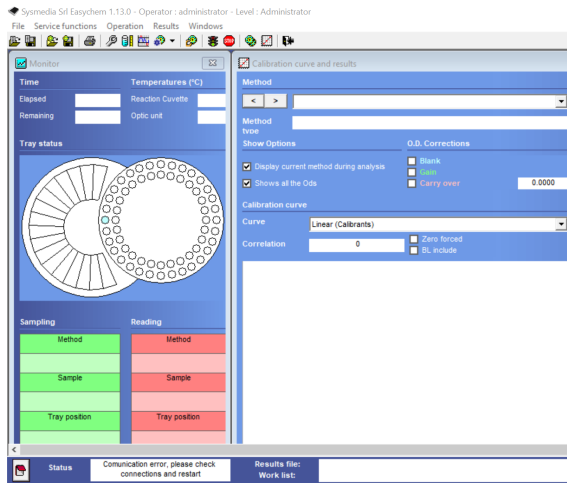
The EasyChem Seawater Analyzer comes with a custom designed 50 mm flow cell which enables low level analysis of seawater and other environmental samples.

Now users can take advantage of the benefits of discrete analyzers while maintaining the detection limits once reserved for flow instruments.

Low Level Ranges

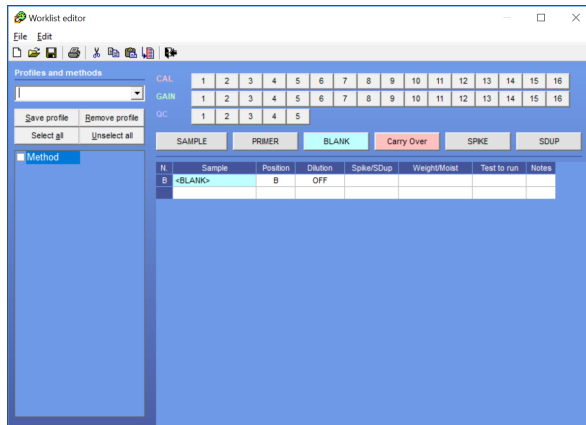
Parameter	Range	MDL
Ammonia as N-NH ₃	0 – 100 µg / L	1.77 µg / L
Dissolved Copper as Cu(I+II)	30 – 300 up to 1000 µg / L	6.83 µg / L
Dissolved Iron as Fe(II+III)	10 – 500 µg / L	2.22 µg / L
Nitrate as N-NO ₃	0 – 100 µg / L	0.80 µg / L
Nitrite as N-NO ₂ -1 Reag	0 – 50 up to 100 µg / L	0.38 µg / L
Orthophosphate as P-PO ₄	0 – 200 µg / L	0.35 µg / L
Orthophosphate as P-PO ₄	0 – 100 µg / L	0.40 µg / L
Silica as Si-2 Reag	5 – 100 up to 1000 µg / L	0.42 µg / L
Silica as Si-3 Reag	0 – 1 mg / L	2.62 µg / L

Software



Our Easy to Use software is fully Nelac compliant and approved for EPA seawater analysis.

User can be trained in primary functions in under an hour. It is compatible with Windows XP, 7.0, 8.0 and 10.



- Pre and post run auto-dilutions
- Add samples to a run at any point
- Build custom work lists for routine testing
- Methods are easy to import
- Integrated QC protocols and traceability
- Automated spike and recovery check

Blue Sun Guarantee

The Blue Sun Guarantee helps you start up quickly and avoid down time and repairs. Every one of our instrument comes standard with:



- Free phone and email support
- Lab Optimization Program
- Web Trainings for New Users
- Free Software Upgrades
- 1 Year Warranty on Parts

Technical Data	
Technology	Flow through, by peristaltic pump easily accessible
Sample/reagents preheating	Yes
Sample capacity and number of reagents	a) 60 positions for samples, blank, standards and controls.
Tests per hour	100 (single reagent)/ 50 (dual reagent)
Number of reagent positions	18 x 35 mL including diluents
Stock solutions on reagent tray	Yes, working calibrates and QC diluted from stocks
Refrigerated reagent tray	Yes standard
Reagent level sensor	Yes
Number of reaction wells	96 reaction microcuvettes with incubation temperature programmable from 37° to 50° C adjustable $\pm 0.1^{\circ}\text{C}$
Optical Path Length	50 mm
Main detector	Colorimetric, temperature controlled; halogen lamp extended UV emission; automated zero settings; accuracy $\pm 1\%$ from 0 to 2.5 O.D.; linearity better than 0.5%; noise $< \pm 2\text{m Abs @}340\text{ nm}$ 2.5 O.D.
Detector techn./Number of wavelengths	Interferential Filters/ 9+ blank
Reading methods	End point: mono or bichromatic; End Point differential (sample blank correction); Kinetic
Cd reduction Module for NO ₃	Yes, by Cd coil - Automated regeneration
Communication and software	Compatible with Windows XP, 7.0, 8.0 & 10
Random access to samples, calib, etc.	Yes
Sample addition during run	Yes
Sample and reagent blanking	Yes
Working Calibrant dilution	Yes, from stock solutions located in the refrigerated tray
Pre run sample dilution	Yes
Post run sample dilution	Yes, automated dilution and rerun off scale samples
Multilevel QC and Closed loop	Up to 5 QC levels, with closed loop control (QC check and pre-programmed actions in case of QC or Spike recovery failure)
QC database and QC chart	Yes
Automated spike and recovery check	Yes
Automated calibrations; calibrations fits linear, polynomial, etc	Yes; up to 16 calibrants
Calibration correction	Yes; enable/disable calibrates change calibration fit
Calibration QC check and Calibration repeat	Yes, if correlation lower than set value option for calibration repeat
Reagent blank OD and Top Cal OP check	Yes, if out of tolerance pre-programmed actions
Results correction	Yes, correction by: dilution factor, moisture and weight
Import work list and export results to LIMS	Yes
Possibility to use multiple diluents	Yes
Size	14inx27inx28in (HxDxW); 100lbs
Power Supply	110-240VAC - 50/60Hz Single phase with ground - Fuses 3.15Amp 230VAC, 46.3Amp 115VAC